

**REQUEST FOR PROPOSAL
FOR
WELL #5 PROJECT**



**For
The Morongo Band of Mission Indians
Water Department**

**12700 Pumarra Road
Banning, CA 92220**

May 15, 2019

Introduction:

The Morongo Band of Mission Indians (MBMI, or tribe) a Federally Recognized tribe, is now soliciting interested and qualified contractors to submit proposals for the furnishing and delivery of project material and labor as identified within the Scope of Work and Request For Proposal [RFP]. The proposal shall include all labor, material, equipment, transportation, tolls, supplies, onsite services, and appurtenances for the satisfactory delivery of said materials and a complete and satisfactory project. Well #5 is located within the exterior boundaries of the MBMI reservation (Potrero Canyon- Exhibit 1), Riverside County and is easily accessible by motor vehicle.

Well #5 was drilled by Layne Western-McCalla in 1994 to a depth of 500 feet per well completion report [Exhibit 2], the actual casing pipe being 460 feet. Since then the well has only been serviced in 2005. At that time the well had experienced similar problems due to the plugging of the perforations and reduced production. The well was rehabilitated [Super chlorination, Air lift, Bail/brush, Sonar Jet, and Swab], including the replacement of the existing pump/motor that had been in service for 10 years. During March 2019 the well again had lost production and was taken out of service. It was determined that the pump/motor should be pulled and inspected [Pump Inspection Report Exhibit 3], and video log completed [Exhibit 4 & Flash drive included]. Based on the video log it is apparent that the wire wrap screening has become plugged in some areas more than others.

Project Description:

Well #5 has the following characteristics:

- Casing Diameter is 16" steel material
- Casing Depth 500'
- Well Depth: 460' [estimated fill, 7']
- Steel casing, no perforations: 0-130'/276-379'/455-460'
- Screened from 130-276'- 379-455'/Slot size .080"
- Column Diameter is 8"
- Line Shaft: 1 ½"
- Oil Tube: 2 1/2"
- Static Water Level is 168'
- Pump setting at 310'
- Pump flow dynamics is 1200 GPM
- Motor HP is 75
- Location is easily assessable with NO overhead structures.

RFP Process and Intent:

The intent of this RFP is to obtain competitive pricing from qualified Contractors for furnishing and delivery of the following pieces of equipment and required labor. Contractors are to submit written quotations, which present the Contractors qualifications and understanding of the work performed as well as price commitment. The Contractors quotations should be prepared simply and economically and should provide all the information that it considers pertinent to its qualifications for the project and which respond to the Scope of Services and Evaluation Criteria listed herein. Emphasis should be placed on completeness of services offered, time frame to complete such work, and clarity of content.

Contractor shall not employ any Subcontractor, Supplier, or other individual or entity whether initially or as a replacement, against whom Owner may have reasonable objection. Contractor shall not be required to

employ any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against whom Contractor has reasonable objection.

All Work performed for Contractor by a Subcontractor or Supplier will be pursuant to an appropriate agreement between Contractor and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of any such RFP for the benefit of Owner. Whenever any such agreement is with a Subcontractor or Supplier who is listed as a loss payee on the property insurance the agreement between the Contractor and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against Owner, Contractor, or Engineer, and all other individuals or entities identified herein to be listed as insureds or loss payees (and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them) for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, Contractor will obtain the same.

Sales and Use Taxes:

Owner is exempt from California state sales tax and use taxes on material and equipment to be incorporated in this project. Said taxes shall NOT be included in the quotation.

Salary and Wages:

California Prevailing Wage shall not apply to this project

Owners Responsibilities:

- Owner shall promptly furnish the data required of Owner.
- Owner shall make payments to Contractor when they are due.
- Owner's duties with respect to providing lands and easements and identifying and making available to Contractor copies of reports of explorations and tests of subsurface conditions and drawings of physical conditions relating to existing surface or subsurface structures at the Site as applicable to the project.
- Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance.
- Owner is obligated to execute Owner approved Change Orders.
- The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with this RFP.
- Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition.
- Upon request of Contractor, Owner shall furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the RFP.

Contractor Responsibilities:

- Contractor shall not be entitled to an increase in the project price or an extension of the project times with respect to any work performed that is not required by the RFP as amended, modified, or supplemented except in the case of an emergency in the case of uncovering Work that was not otherwise disclosed.
- Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the RFP. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Contractor shall not be responsible for the negligence of Owner or Engineer in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the RFP. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent or project manager who shall not be replaced without written notice to Owner or Engineer except under extraordinary circumstances.
- Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the RFP. Contractor shall at all times maintain good discipline and order at the Site.
- Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the RFP, all Work at the Site shall be performed during regular working hours. Contractor will not permit the performance of Work on a Saturday, Sunday, or any legal holiday without Owner's written consent (which will not be unreasonably withheld).
- Unless otherwise specified in the RFP, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, hydrostatic testing and related equipment, drinking water for workers, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work.
- All materials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the RFP. All special warranties and guarantees required shall expressly run to the benefit of Owner. If required by Owner or Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.
- All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the RFP.
- Notwithstanding any other provision in the RFP, it is understood and agreed that Contractor shall act as both the seller and installer of all materials to be incorporated into the Work and title of all such materials shall pass from Contractor to Owner on the Morongo Indian Reservation prior to the time such materials are installed.

- Contractor shall adhere to the Progress Schedule established as it may be adjusted from time to time. Proposed adjustments in the Progress Schedule that will change the project schedule may only be made by an approved Change Order.
- Whenever an item of material or equipment is specified or described in the RFP by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or-equal" item or no substitution is permitted, other items of material or equipment or material or equipment of other Suppliers may be submitted to Owner or Engineer for review under the circumstances described below.
 - i. it is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics; and
 - ii. it will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole; and
 - iii. it has a proven record of performance and availability of responsive service: and
 - iv. Contractor certifies that, if approved and incorporated into the Work: and
 - v. there will be no increase in cost to the Owner; and
 - vi. it will conform substantially to the detailed requirements of the item named in the RFP.
- When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner or Engineer in writing that the entire Work is substantially complete (except for items specifically listed by Contractor as incomplete) and request that Owner or Engineer issue a certificate of Substantial Completion. Promptly after Contractor's notification, Contractor, and Owner or Engineer shall make an inspection of the Work to determine the status of completion. If Owner or Engineer does not consider the Work substantially complete, Owner or Engineer will notify Contractor in writing giving the reasons therefor.
- If Owner or Engineer considers the Work substantially complete, Owner or Engineer will deliver to Contractor a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed and/or corrected before final payment. Contractor shall have seven days after receipt of the tentative certificate during which to make written objection to Owner or Engineer as to any provisions of the certificate or attached list. If, after considering such objections, Owner or Engineer concludes that the Work is not substantially complete, Owner or Engineer will, within 14 days after submission of the tentative certificate to Contractor, notify Contractor in writing, stating the reasons therefor. If, after consideration of Contractor's objections, Owner or Engineer considers the Work substantially complete, Owner or Engineer will, within said 14 days, execute and deliver a definitive Substantial of Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as Owner or Engineer believes justified after consideration of any objection(s) from Contractor.
- At the time of delivery of the tentative certificate of Substantial Completion, Owner or Engineer will deliver to Owner and Contractor a written recommendation as to division of responsibilities pending final payment between Owner and Contractor with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and warranties and

guarantees. Unless Owner and Contractor agree otherwise in writing and so inform Owner or Engineer in writing prior to Owner or Engineer's issuing the definitive certificate of Substantial Completion, Owner or Engineer's aforesaid recommendation will be binding on Contractor until final payment.

- Owner shall have the right to exclude Contractor from the site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the tentative list.
- Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner or Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions:
 - i. Owner at any time may request Contractor in writing to permit Owner to use or occupy any such part of the Work which Owner believes to be ready for its intended use and substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, and Owner or Engineer will follow any specified procedures for that part of the Work.
 - ii. Contractor at any time may notify Owner or Engineer in writing that Contractor considers any such part of the Work ready for its intended use and substantially complete and request Owner or Engineer to issue a certificate of Substantial Completion for that part of the Work.
 - iii. Within a reasonable time after either such request, Owner, Contractor, and Owner or Engineer shall make an inspection of that part of the Work to determine its status of completion. If Owner or Engineer does not consider that part of the Work to be substantially complete, Owner or Engineer will notify the Contractor in writing giving the reasons therefor. If Owner or Engineer considers that part of the Work to be substantially complete, Owner or Engineer will issue a certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

Cost of Work:

Each item as identified in the General Scope of Work or any additional items to be added to the General Scope of Work by Contractor after reviewing the RFP, Video Log, and Pump Report shall be identified separately per unit cost. A total cost shall follow.

Safety Requirements:

All Safety requirements shall be adhered to in Accordance with OSHA Standards, Safety Orders from the Division of Industrial Safety and the State of California, including the Morongo Band of Mission Indians. Copies of Safety Orders issued by the State of California are available at the Printing Division, Documents Section, State of California, Sacramento, CA 95814

General Scope of Work:

- This proposal is for the mobilization/demobilization to said facilities
- Removal of pump/motor—This shall NOT be part of Scope
- Deliver motor to qualified vendor for inspection, provide motor report to Owner
- Inspect, rehabilitate, and/or refurbish existing bowl assembly or furnish new [based upon existing equipment inspection report]
- Based on video log [March 13, 2019], provide analysis if any, for chemical treatment and/or sonar jet. Fee shall be based on actual work performed, including on on-site storage [Baker Tank]. Liquid material can be disposed on site after neutralized
- Furnish and install/remove air lift equipment if needed and swab
- Bail (8 hours if needed), brush a total of 12 Hours over (2 days if needed)
- Video inspection (x2)
- Re-installation of pump/motor, including start up service.
- Overtime should not be included.
- Owner shall provide analytical testing of well once completed in accordance with AWWA standards.

Submittals:

Within 10 days of the NTP, the Contractor or Supplier shall submit to the Owner for approval the following:

- a) Transmit each submittal to Owner for review and approval.
- b) Sequentially number the transmitted form(s).
- c) Identify any Subcontractor, Supplier, or Contractor including their experience.
- d) Provide all pertinent drawings, specifications, section numbers, name of manufacturer, trade name, model number, surface finishes, protective coating, and dimensions.
- e) Detailed instructions for unloading, and protecting all material during transportation.
- f) When revised for re-submittal, identify all changes made since previous submittal.
- g) Distribute revised submittal(s) as required within 5 calendar days to owner.
- h) Submittals deemed unnecessary will be returned without review or comment.

Project Completion Date:

The Contractor shall complete all work under this RFP and its contents within the following number of calendar days from and after the date of "Notice to Proceed". The Completion Schedule is and shall be based on commencing on the date the Contractor is notified in writing of the Notice to Proceed.

Time of delivery will be considered in evaluating the proposals, thus, the Contractor may list an alternate number of calendar days for completion of work. Contractor shall consider and include in the calendar days listed the time necessary for shop drawing review, if any.

Proposal Components:

Two (2) hard copies of the following information will need to be submitted to the address below, and one electronic copy sent to jcovington@morongo-nsn.gov

Proposal Outlining the following:

- a) The type of equipment to be used and installed;
- b) The timeline you propose for the completion of project;
- c) A "not to exceed" or a "guaranteed maximum price" for items that are within your control.
- d) A breakdown of charges indicating the fee schedule for each task to be performed.
Example: Mobilization/Demobilization, Labor charges for each task, Well Video Survey, Material Charges,(including Unit, Extended, and Hourly pricing) any proposed sub-consultants/contractors, and any reimbursable costs anticipated for the project.

Insurance Requirements:

The Contractor shall purchase and maintain in force, at their own expense, such insurance as specified below which includes a copy of an original Certificate of Insurance, naming the Tribe as an additional insured. The Contractor shall furnish insurance in satisfactory limits which are acceptable to the Tribe as identified below and shall require and show evidence of insurance coverage's on behalf of any sub-contractor (if applicable, before entering into any agreement to sublet any part of the work to be done under this agreement).

- A. Workers Compensation: Contractor shall maintain Workers Compensation insurance as required by law in the State of California at all times and Employer's Liability Insurance in an amount of not less than \$1,000,000 per occurrence. The insurance shall also waive all right to subrogation against the Tribe, its members, officers, employees, and representatives and agents.
- B. General Liability: Contractor shall maintain general liability insurance including provisions for contractual liability, independent contractors, and broad form property damage coverage. This insurance shall be on a comprehensive occurrence basis form with a standard cross liability clause and endorsement (ISO CG 2010 or equivalent). The Tribe shall be named as an additional insured, and the limit for this insurance shall be no less than \$2,000,000 per occurrence, combined single limit for bodily injury and property damage and \$4,000,000 aggregate.
- C. Automobile Liability: Contractor shall maintain automobile liability insurance with coverage for any vehicle including those owned, leased, rented, or borrowed. This insurance shall have an endorsement naming the Tribe as an additional insured and with a standard cross liability clause and endorsement (ISO CG 2010 or equivalent). The limit amount for this insurance shall not be less than \$1,000,000 per occurrence or combined single limit for bodily injury and property damage.
- D. Professional Liability: Contractor shall maintain professional liability insurance with coverage for wrongful acts, errors, or omissions committed by Contractor in the course of work performed for the Tribe under any agreement. This insurance shall include coverage for liability assumed under any agreement when Contractors wrongful acts, errors, or omissions cause such liability. The limit for this insurance shall not be less than \$1,000,000 per occurrence, and \$2,000,000 annual aggregate.

Indemnification:

Contractor shall hold harmless, defend at its own expense, and indemnify the Tribe, its officers, employees, and agents against any liability, claims, losses, damages, or expenses, including reasonable attorney's fees arising from all negligent or reckless acts or omissions, or acts of willful misconduct of the company or its officers, agents, or any employee rendering services under any agreement, excluding however such liability, claims, losses, damages, or expenses arising solely from Tribes gross negligence or willful acts. The Tribe hereby notifies all respondents that it will affirmatively insure that any proposal accepted pursuant to this advertisement will be awarded without discrimination on the grounds of any protected status. Consideration will be given without regard to race, color, religion, sex, age, handicap, or national origin

The Tribe reserves the right to reject any and all proposals, to withdraw the RFP at any time and to waive any irregularities or informalities in the proposals received. The Tribe also reserves the right to negotiate all aspects of the proposals submitted in response to the RFP at any time during the evaluation period. It shall be the sole responsibility of proposer to ensure that the Tribe has proposer's

proper mailing address. The Tribe shall not be responsible for any misdirection, late delivery, or non-delivery of mail to proposer.

Responsible Person/Project Manager:

The Contractor shall provide a person who shall be responsible for the performance of the work. The name of this person and an alternate who shall act for the Contractor. The Responsible Person or alternate shall have full authority to act for the Contractor on all matters relating to the daily operation of the project.

Selection Process:

The Owner or Engineer will evaluate each item proposed using the evaluation criteria. A rating score between 1 and 5 will be assigned for the evaluation criteria for each proposed items. These will be totaled and the proposed item with the highest score will be recommended to the Tribe for selection. Any information that will assist the Tribe and Owner or Engineer in evaluating the proposals based on the criteria listed above is encouraged. The technical proposal should address all the above items or the proposal will be considered non-responsive. **Price shall be considered, but will not be the sole determining factor.**

Proposals must be received by the close of business (5:00 p.m.) on June 06, 2019. Please send the proposals and all other pertinent information, including any questions to the following address:

John Covington
Water Department Manager/ Administrator
Morongo Water Department
12700 Pumarra Road
Banning, California 92220
Phone (951) 755-5270
Email: jcovington@morongo-nsn.gov

Proposals will not be accepted via Fax machine. Time is of the essence and any proposal received after **June 06, 2019** will not be accepted. All questions pertaining to the RFP received after **June 03, 2019** will not be answered. Only questions answered by Addendum shall be binding. RFP and all Addendums will be posted at www.morongonation.org and sent electronically to all interested parties. **There will be NO Public Bid Opening.** Addendum may be issued to clarify, correct, or change the RFP. Nothing herein is intended to exclude any responsible Contractor or in any way restrain or restrict competition. On the contrary all responsible bidders/suppliers are encouraged to submit quotations. Any quotation submitted must include a signature that has been signed by an individual authorized to bind the Contractor. All quotations submitted without such signature shall be deemed non-responsive.

EXHIBIT 1

POTRERO CANYON

Potrero Canyon

Well #5 Rehabilitation Project

Legend



Well

Well #6

Well #5

Well #4

Potrero Rd

Google Earth

© 2018 Google

4000 ft

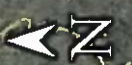


EXHIBIT 2

WELL COMPLETION REPORT

QUADRUPPLICATE
For Local Requirements

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 1

Owner's Well No. 5

No. **395308**

Date Work Began 11-2-93, Ended 1-8-94

Local Permit Agency Morongo Band of Mission Indians EPA

Permit No. 111 Permit Date _____

ORIENTATION ()			DEPTH TO FIRST WATER		DESCRIPTION
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL			_____ (Ft.) BELOW SURFACE		
DEPTH FROM SURFACE		Ft. to Ft.	Describe material, grain size, color, etc.		
0	65			Loose sand and cobbles	
65	100		Sand and gravel		
100	115		Coarse brown sand		
115	200		Sand and gravel		
200	280		Fine sand and gravel		
280	320		Rocks, brown sand, gravel		
320	330		Brown sand, gravel, red clay		
330	340		Black sand, gravel, red clay		
340	360		Brown sand, gravel, some clay		
360	410		Fine sand and gravel, some rocks		
410	430		Coarse sand gravel and rock		
430	450		Rock, sand, gravel, blue granite		
450	500		Fine sand, rocks, gravel and clay bedding planes		

WELL OWNER

Name Morongo Band of Mission Indians

Mailing Address 11581 Potrero Rd.

Banning CA 92220-29655

CITY STATE ZIP

Address 45 Well Potrero Canyon

City Banning

County Riverside

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude _____ NORTH Longitude _____ WEST

DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH

WEST EAST

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY ()

NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify) _____

___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) ()

___ MONITORING

WATER SUPPLY

___ Domestic

Public

___ Irrigation

___ Industrial

___ "TEST WELL"

___ CATHODIC PROTECTION

___ OTHER (Specify) _____

DRILLING METHOD Reverse Rotary FLUID Water

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 55 (Ft.) & DATE MEASURED 11-4-93

ESTIMATED YIELD 2000 (GPM) & TEST TYPE pump

TEST LENGTH 48 (Hrs.) TOTAL DRAWDOWN 85 (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 500 (Feet)

TOTAL DEPTH OF COMPLETED WELL 460 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING(S)						DEPTH FROM SURFACE	ANNULAR MATERIAL							
		TYPE ()				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)		GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE					
		BLANK	SCREEN	COIL DOCTOR	FILL PIPE						Ft.	to	Ft.	CE-MENT ()	BEN-TONITE ()	FILL ()
0	50	36	X	X		A580dB	30	1/4"		0	50	X				
0	130	26	X			3048S	16	1/4"		50	460				Silice	Resources
130	270	26	X			A53GdB	16	1/4"	.080						#6	
270	370	26	X			3048S	16	1/4"	.080							
370	450	26	X			A53GdB	16	1/4"								
450	460	26	X													

ATTACHMENTS ()

___ Geologic Log

___ Well Construction Diagram

Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Layne Western - McCalla

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

900 Nevada Street Redlands, CA 92373

ADDRESS CITY STATE ZIP

Signed: _____ DATE SIGNED _____

WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

EXHIBIT 3

PUMP INSPECTION REPORT

Legend

Pump & Well Service Inc.

1324 W. Rialto Ave
San Dimas, CA 92440

License No. 907657

CUSTOMER: Morongo Band of Mission Indians WELL NAME: #5 JOB # 19079 DATE: 5-14-19

Bowl Information

MANUFACTURE: Layne Christensen MODEL: FR499414 SIZE: 1 1/4 STAGES: 6
 IMPELLER # 68505 C028385 1102 TOP TRIM: 7.055 BOTTOM: 8.090 NO. OF VANES: 7
 SHAFT SIZE: 1 11/16" X 94 1/2" TURN DOWN: 1 1/2" THREADS: 10 STICK-UP: 7 3/8" PIN LINE: 7 1/2"
 DISCHARGE SIZE: 8" BUTT NPT SUCTION SIZE: 10" BUTT NPT PUMP O.A.L: _____

Condition of Bowl

STAGE	SUC.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CASTING CONDITION	Good	Good	Good	Good	Good	Good										
HOUSING I.D.	5.467	5.477	5.479	5.478	5.477	5.472										
WEAR RING O.D.	5.435	5.433	5.434	5.430	5.433	5.432										
TOTAL CLEARANCE	.032	.044	.045	.042	.044	.040										
MANUFACTURE CLR"	.010	.010	.010	.010	.010	.010										
BEARING I.D.	1.705	1.707	1.708	1.706	1.710	1.709										
BEARING CLEARANCE	.018	.020	.021	.019	.023	.022										
BEARING CONDITION	Replace	Replace	Replace	Replace	Replace	Replace										

REBUILDABLE? Yes REMARKS: Bearings need to be replaced

Motor Report

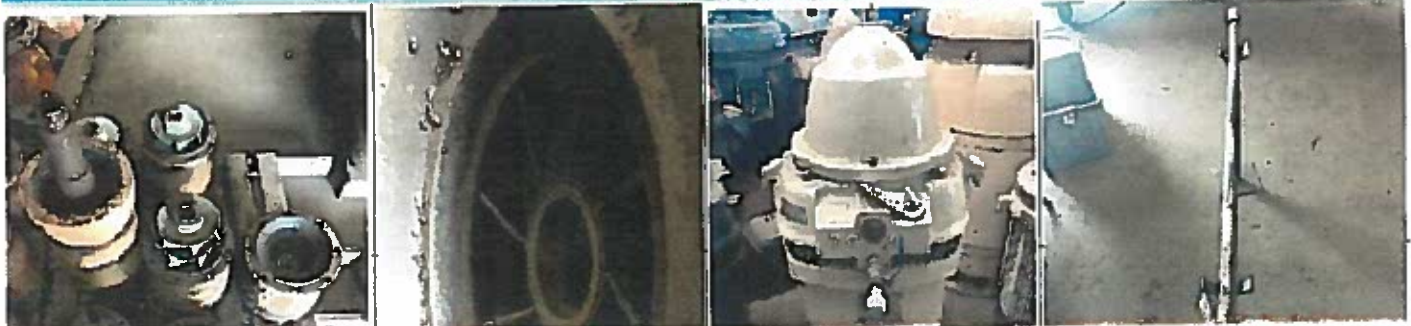
MOTOR W/ PUMP? Yes BONNET W/ MOTOR? Yes SERIAL# 11075V2SLG MODEL# H161A
 MANUFACTURE: U.S. CD: 31 1/4" Driver: 1 1/2" BUSHING SIZE: _____ X _____
 KEY WAY: 3/8" H.P. 75 R.P.M. 1780 VOLTS: 460 AMPS: 81
 PHASE: 3 FRAME: 365TP NUMBER OF LEGS: _____ MEG OHMS: _____ PREM. EFF.? _____
 REMARKS: Motor Megs good and spins freely.

Head and Parts

DISCH. HEAD MAKE: American Turbinc DISCH. SIZE: 8" BASE SIZE: _____ GOOD BAD
 LANDING NIPPLE SIZE: 8" X 2" BUTT NPT CONDITION: Good
 HEAD SHAFT: 1 1/2" X 60 1/2" MATERIAL: _____ THRDS: 10 KEY WAY: 3/8" CONDITION: Replace
 2PC. SHAFT? No SIZE: _____ X _____ MATERIAL: _____ THRDS: _____ CONDITION: _____
 PACKING BOX / Stretch Assembly: Stretch Assembly Condition: Good Stretch Nut: Yes CONDITION: Replace
 PARTS BUCKET W/ PUMP? _____ SPECIFY: _____

REMARKS: Head Shaft and Head Nut need to be replaced.

Photos



CUSTOMER: Morongo Band of Mission Indians WELL NAME: Well #5 JOB # 19079 DATE: 5-14-19

Suction

STRAINER W/ PUMP? Yes SIZE: 10" MATERIAL: Steel GOOD BAD REMARKS: Weld-On, Dirty
 PIPE SIZE: 10" X 20' BUTT NPT TOTAL: 3 # GOOD: # BAD: 3
 OTHER SIZE: 10" X 10' BUTT NPT TOTAL: 1 # GOOD: # BAD: 1
 REMARKS: All pieces of suction pipe have holes.

Column Pipe

PIPE SIZE: 8" X 20' BUTT NPT TOTAL: 16 # GOOD: 8 # BAD: 8
 OTHER SIZE: 8" X 2' BUTT NPT TOTAL: 1 # GOOD: 1 # BAD:
 OTHER SIZE: X BUTT NPT TOTAL: # GOOD: # BAD:
 REMARKS: 8 Pieces of pipe are in bad condition

Line Shafts

SIZE: 1 1/2" X 20' THRDS: 10 MATERIAL: TOTAL: 16 # GOOD: 10 # BAD: 6
 SIZE: X THRDS: MATERIAL: TOTAL: # GOOD: # BAD:
 SIZE: X THRDS: MATERIAL: TOTAL: # GOOD: # BAD:
 SLEEVES ON SHAFTS? No SIZE: O.D. X LONG @ STICK-UP #GOOD: #BAD:
 REMARKS: 6 shafts are worn and in bad condition

Oil Tube

SIZE: 2 1/2" X 20' Tube Style: Goulds TOTAL: 16 # GOOD: 10 # BAD: 6
 SIZE: 2 1/2" X 5' Tube Style: Goulds TOTAL: 1 # GOOD: # BAD: 1
 C/O's? SPECIFY: X MATERIAL: CONDITION:
 REMARKS: Six 20 ft oil tubes and one 5 ft oil tube have bad wear

Spiders

Spider Size: 8" X 2 1/2" TYPE: TOTAL: 5 #GOOD: #BAD: Replace: 5
 OTHER SIZE: X TYPE: TOTAL: #GOOD: #BAD: #REBUSH:
 REMARKS: Spiders are hard and dry rotted.

Other Parts

AIR-LINE W/ PUMP? SIZE: MATERIAL: GOOD BAD REMARKS:
 SOUNDING TUBE W/ PUMP? Yes TYPE: PVC SIZE: 1 1/4" X 10' TOTAL: 33 #GOOD: 14 #BAD: 19
 REMARKS: 19 pieces of PVC are missing O-Rings and are in bad condition.



EXHIBIT 4

VIDEO INSPECTION

WATER WELL VIDEO REPORT

Groundwater Data

Well #5

Morongo

8998 Oakcreek Rd Cherry Valley, CA. 92410
Phone: 1-951-616-8350

Client: Legend Pump & Well	Survey Date: March 13, 2019
Address: 1324 W Rialto Ave	Invoice No.: 19-0301 Run: 1
City: San Bernardino, CA 92410	P.O.: 19079 Van: 1
County:	Operator: David Pantalion
Requested By: Keith Collier	Type Camera: Aries BT9600 Color Camera
Copy To: Legend pump and Well	Latitude: _____ Longitude: _____
Reason For Survey: General Evaluation	Section: _____ TWP: _____ Range: _____
Location:	
Field:	
Other Information:	

CASING INFORMATION		DEPTHS (SideScan)	VIDEO OBSERVATIONS
Stainless Steel Screen	Well Depth	0.0 Ft.	Top of casing
131.2-277.3 Ft.	453.8 Ft.	131.2 Ft.	Perforations, Top Of Screen
379.9-453.8 Ft.		168.4 Ft.	Static Water Level (SWL)
	S.W.L.	170.0 Ft.	camera returns to surface to soap lens
	168.4 Ft.	190.4 Ft.	Perforation plugged
		247.7 Ft.	Break, Possible
		390.2 Ft.	Perforations appear very plugged
		456.5 Ft.	Top of fill
			end of survey
	15.5" I.D. Casing		
	0.0-453.8 Ft.		
Zero Datum	Type: Steel		
Top Of Casing			
Dia. Reference			
Measured			
Casing Buildup			
Moderate, Increasing W/ Depth			

