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 MRU service unit. POOH with: 142, 3/4" rods and pump. ND wellkead. NU BOP. POOH with 2113 joints of 23 NP, 4.78, J-55 biolog and mud anchor. PU bit and incrept of 3 J/2", 14.06 easing or 33,023' of 27 NP, 6.58, J-55 workstring POOH with 2113 joints of 23 NP, 4.78, J-55 biolog and mud anchor. MRU decrife withine unit. RU pack of bard on BOP. Ruith of "HEO performing gan and anchor. MRU decrife withine unit. RU pack of bard on BOP. Ruith of "HEO performing gan and for 3, J277 and 2, 590" - 2,597 with 4 SPF, 90" phasing. POOH. RUMO docting withing multi-response and ubing check valve on ±2,540" of 27 NP, 6.58, J-55 tubing. NU "BIW" stripping basd on BOP. MRU stripping basd on BOP. Start pomping 2% KCI water at 2 BPM. Verify on surface monitor that Sociel Hammer is functioning. With strapping basid be following performation attracting stripping streps streps for frainder. Start pomping 2% KCI water at 2 BPM. Verify on surface monitor that Sociel Hammer is functioning. With strapping basid be 500 on 1,000 1,200	13. Describe Proposed or Completing	eted Operations (Clearly state all pertinent de	tails, and give pertinent dates,	including estimated date of starti	Completion or Recompletion Report and Log form.) ing any proposed work. If well is directionally drilled,	
with hubing. ID bit and scruper. A MRU doctric wirding unit. RU pack of bead on BOP. RLH with 4" HSC performing gun and COCL. Corrected CL to CRU/GMCCL dated 2-12-73 and perforate the Lower Yates from 2,558 - 2,577 and 2,590 - 2,597 with 4 SPF, 90° plasing. POOK. RDMO electric wirding unit. FU "Sonie Hammer," shear slowe and tubing check valve on ±2,540° of 2 7/8". 6.58, 1-55 tubing. NU "BIW" stripping bad on BOP. MRU situation company. RU stand pipe and bales as needed to allow ±50° of tubing movemend during stringbing bad on BOP. MRU situation company. RU stand pipe and bales as needed to allow ±50° of tubing movemend during stringbing bed on BOP. MRU situation company. RU stand pipe and bales as needed to allow ±50° of tubing movemend during stringbing bed on BOP. MRU situation company. RU stand pipe and bales as needed to allow ±50° of tubing movemend during stringbing bed on BOP. MRU situation company. RU stand pipe and bales as needed to allow ±50° of tubing movemend during stringbing bed on BOP. MRU situation company. RU stand pipe and bales as needed to allow ±50° of tubing movemend during stringbing bed on BOP. MRU situation company. RU stand pipe and bales as needed to allow ±50° of tubing movemend during stringbing bed particle lines to 6,100 pd. Start pumping 2% KCl water as 2 BPM. Verify on surface monotor that Socie Hammer is functioning. With annulus open, wash the following perforated intervals with ±50 guilous per perforated foot of 2% KCl with parsing Socie Hammer on Socie 2,590° - 2,597° _ 3500 _ 1,000 2,590° - 2,597° _ 3500 _ 1,000 2,590° - 3,502° - 3,1507° _ 2,500 _ 2,500 Totals: 3,700 _ 5,000 MALL ALMS Tube and borrect Signed LOOWNAD MALL ALMS Tube PRODUCTION ASSISTANT Date 12/2/93 Total: 3,700 _ 5,000 MIL PETROLEUM ENGINEER Approx/DORBIG. SGD.) DA VID R. GLASSS THE PETROLEUM ENGINEER	•	1. MIRU service unit. POOH	with: 142, 3/4" rods and pump. NE	-		
 MIRU dectric wirdine unit. RU pack off bead on BOP. RIH with 4* HSC performing gun and CCL. Correlate OCL to CRUCRACCL dated 2-12-73 and performe the Lower Y test from 0.558 - 2537 and 2.597 - 2.597 with 4 SPF, 90° phasing. POOK. RDMO electric wirdine unit. PU "Sonic Hammer," their allows and bubing check valve on 22,540 of 2 78°, 6.58, 1-55 tubing. NU PRW* stripping bead on BOP. MIRU stripulation company. RU stand pipe and bales as needed to allow ±50° of tubing movement during stimulation company. FU stand pipe and bales as needed to allow ±50° of tubing movement during stimulation transmer. Pressure test surface lines to 6,100 psi. Start pumping 2% KCl water at 2 BPM. Verify on surface monitor that Sonic Hammer is functioning. With strinking performated Extra the following performance of 2% KCl water at 2 BPM. Verify on surface monitor that Sonic Hammer is functioning. With strinking open, watthe following performance of 2% KCl water at 2 BPM. Verify on surface monitor that Sonic Hammer is functioning. With strinking coler. Hammer containcoulty across performance. Xone Perforated 2% KCl water at 2 BPM. Verify on surface monitor that Sonic Hammer containcoult across performance. Xone Verify 258° - 2,577 550 1,000 Queen 3,250° - 2,307 2,500 2,000 Perrore 3,250° - 2,307 2,000 I. I. bereby cprify that the fortholog is tube and beorget to take: 3,700 5,000 I. I. bereby cprify that the fortholog is tube and beorget string. Title PRODUCTION ASSISTANT Date: 12/2/93 Title PETROLEUM ENGINEER Date: 12/2/93 	·	2. PU bit and scraper for 5 1/2	, 14.0# casing on ±3,623' of 2 7/8",	6.5#, J-55 workstring POOH	· · ·	
tubing. NU "BIW" stripping head on BOP. 3. MIRU stimulation company. RU stand pipe and bales as needed to allow ±50° of tubing movement during stimulation treatment. Pressure test surface lines to 6,100 psi. 6. Start pumping 25% KCI water at 2 BW. Verify on surface monitor that Sonie Hammer is functioning. With annuber open, wath the forbing perforated intervals with #50° gallons per perforated foot of 25% KCI while passing Sonie Hammer continuously scross perforations. Zone Perforated 25% KCI Resi-Sol Lower Yates 2,550° - 2,577 950 1,000 2,590° - 2,597 950 1,000 2,590° - 2,597 950 Queen 3,256' - 3,305' 2,500 2,000 Perrone 3,523' - 3,547 1200 1.500 I4. I hereby certify that the forthooing is top and bornect Title PRODUCTION ASSISTANT Date 12/2/93 (This space for Federal or State office use) Title PETROLEUM ENGINEER DEC 2.8 1993	 MIRU electric wireline unit. RU pack off head on BOP. RIH with 4° HSC perforating gun and CCL. Correlate CCL to CNL/GR/CCL dated 2-12-73 and perforate the Lower Yates from 2,558° - 2,577° and 2,590° - 2,597° with 4 SPF, 90° phasing. POOK. RDMO electric 					
novement during stimulation treatment. Pressure test surface lines to 6,100 psi. 6. Start pumping 2% KCl water at 2 BPM. Verify on surface monitor that Sonic Hammer is functioning. With sunsuls open, wash the following perforated intervals with 450 gallons per perforated foot of 2% KCl while passing Sonic Hammer continuously seross perforations. Zone Perforated 2% KCl Resi-Sol Lower Yates 2,558 - 2,577 950 1,000 2,590 - 2,597 350 500 Queen 3,256 - 3,305 2,500 2,000 Perrose 3,256 - 3,305 2,500 2,000 Perrose 3,527 - 3,547 1,200 1,500 14. I hereby certify that the forkeoing is type and correct Signed DONNAQ VALL AMS Title PRODUCTION ASSISTANT Date 12/2/93 (This space for Federal or State office use) Approx/OBB-IG. SGD.) DAVID R. GLASS Title PETROLEUM ENGINEER	 PU "Sonic Hammer," shear sloeve and tubing check valve on ±2,540' of 2 7/8", 6.5#, J-55 tubing. NU "BIW" stripping head on BOP. 					
functioning. With annulus open, wash the following performed intervals with ±50 gallons per performed foot of 2% KCl while passing Sonic Hammer continuously across performations. Image: Control of	movement during stimulation treatment. Pressure test surface lines to 6,100 psi.					
Zone Interval (gal) (gal) Lower Yates 2,558 - 2,577 950 1,000 2,590 - 2,597 350 500 Queen 3,256 - 3,305 2,500 Perrose 3,523 - 3,547 1,200 14. I hereby certify that the fortaoing is the and correct Totals: 3,700 Signed Totals: 3,700 5,000 Title PRODUCTION ASSISTANT Date 12/2/93 Title PETROLEUM ENGINEER DEC 2 3 1993		functioning. With annulus of	pen, wash the following perforated	intervals with ±50 gallons per		
Queen 3,250 - 2,597 350 500 3,256 - 3,205 2,500 2,000 Perrose 3,522 - 3,547 1,200 1,500 14. I hereby certify that the forehoing is that and correct a Signed		Zone				
Totals: 3,700 5,000 14. I hereby cpriify that the foreaoing is the and correct in the production ASSISTANT Signed Double for Foderal or State office use) Signed Title PRODUCTION ASSISTANT Date 12/2/93 Title PRODUCTION ASSISTANT Date 12/2/93 Title PETROLEUM ENGINEER Date 12/2/93		Queen	2,590' - 2,597' 350 3,256' - 3,305' 2,500) 500) 2,000		
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(This space for Federal or State office use) Approv DRIG. SGD.) DAVID R. GLASS Title PETROLEUM ENGINEER Date DEC 2 8 1993	14. I hereby certify that the fores	oing is true and correct Ja	100843, 3,700	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Appro 100 BIG. SGD.) DAVID R. GLASS Title PETROLEUM ENGINEER DEC 2 3 1993	Signed	ELDONNA WOLLAMS	Title PRODUCTION AS		Date 12/2/93	
	Approv QRIG. SGD.)	DAVID R. GLASS		I ENGINEER	Date DEC 2 8 1993	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

7. Close annulus. Increase rate to 3 BPM. Treat the perforated intervals with 5,000 gallons of Resi-Sol acid as per the listed schedule while continuously moving the Sonic Hammer through the perforated interval(s).

Anticipated Pressure (tubing):	2,900 psi
Maximum Pressure (tubing):	6,100 psi
Maximum Pressure (casing):	3,500 psi
or Stripping Head rating	-

NOTE: Pump ±100 gallons of 2% KCl between connections.

- 8. PU and LD tubing check valve. Drop ball. Lower tubing to ±3,550'. Open shear sleeve and annulus. Circulate hole clean with 2% KCl. Monitor returns.
- POOH with tubing and Sonic Hammer. PU CIBP and treating packer for 5 1/2", 14.5# casing, on ±2,650' of 2 7/8", 6.5#, J-55 tubing. Set CIBP at ±2,650'. PU to ±2,620'. Set packer.
- 10. MIRU fracture stimulation company. NU on 2 7/8" tubing. Pressure test surface lines and CIBP to 6,100 psi.
- 11. Release packer and PU to ±2,400'. Set packer. NU frac valve on 2 7/8" tubing. Pressure test frac valve and surface lines to 6,100 psi. Place 500 psi on annulus and monitor throughout treatment.
- 12. Fracture Lower Yates with 12,500 gallons of 35# cross-linked gel and 41,000 lbs of 12/20 Brady sand down 2 7/8" tubing. See attached pump and breaker schedule.

Anticipated Rate:	18 BPM
Anticipated Pressure:	3,000 psi
Maximum Pressure:	6,100 psi

Record ISIP, 5, 10, 15 minute shut in pressures. SI for ± 4 hours.

- 13. RDMO frac company.
- 14. Flow back well as needed. POOH with packer. PU bit and collars for 5 1/2", 14.0# casing on ±3,000' of 2 7/8", 6.5#, J-55 workstring.
- 15. MIRU foamed air unit. Clean out to top of CIBP at ±3,000'. Drill out CIBP and push down to top of cement retainer at ±3,623'. Allow well to stabilize and foam clean again. POOH laying down 2 7/8" workstring, collars and bit.
- 16. PU 2 3/8" mud anchor and 1.781" SN ±2,550' of 2 3/8", 4.7#, J-55 production tubing. Set above top perf at 2,558'. ND BOP. NU wellhead.

- 17. RIH with 2" x 1 1/2" x 12' pump, ±100 3/4" rods. Space out pump and hang on. RDMO service unit.
- 18. Turn over to production operations. Report well tests daily for 15 days via PDT.

T. J. Harrington

Approved:

Date:

MERIDIAN OL



nm/SHUGAPA3.DRW 11/02/93