Form 3160-5 UNITED STATES 1625
(June 1990) DEPARTMENT OF THE INTERIOR OF

N.M. Oil Cons. Division 1625 N. French Dr.

FORM APPROVED
Budget Bureau No. 1004-0135
Exprises: March 31, 1993

June 199	DEPARTMENT OF THE INTERIOR ODDS, NM 88240		Expires: March 31, 1993 5. Lease Designation and Serial No. \$\frac{104-0135}{207}\$ 6. If Indian, Allottee or Tribe Name	
	BUREAU OF			
Do not	SUNDRY NOTICES t use this form for proposals to dr Use "APPLICATION FO			
	SUBMIT	7. If Unit or CA, Agreement Designation		
	Oil Gas Gas	8. Well Name and No. Jack A-20 No. 9		
	Well X Well Other of Operator			
Doy	ele Hartman ss and Telephone No.	9. API Well No. 30-025-24803		
	N. Main St., Midland, TX 79701, (432)	10. Field and Pool, or Exploratory Area Jalmat (T-Y-7R)		
4 Locati	on of Well (Footage Sec. T. R. M. or Survey De	escription)	Jalmat (T-Y-7R)	
660	on of Well (Footage, Sec., T., R., M., or Survey Do 'FNL & 990' FEL (Unit A), tion 20, T-24-S, R-37-E, N.M.P.M	escription)	Jalmat (T-Y-7R) 11. County or Parish, State	
660	' FNL & 990' FEL (Unit A), tion 20, T-24-S, R-37-E, N.M.P.M		11. County or Parish, State Lea, NM	
660 Sec	' FNL & 990' FEL (Unit A), tion 20, T-24-S, R-37-E, N.M.P.M	s) TO INDICATE NATURE OF NOTICE, REPORT, O	11. County or Parish, State Lea, NM	
660 Sec	'FNL & 990' FEL (Unit A), tion 20, T-24-S, R-37-E, N.M.P.M CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, O TYPE OF ACTION Abandonment	11. County or Parish, State Lea, NM	
660 Sec	'FNL & 990' FEL (Unit A), tion 20, T-24-S, R-37-E, N.M.P.M CHECK APPROPRIATE BOX(s	s) TO INDICATE NATURE OF NOTICE, REPORT, O TYPE OF ACTION Abandonment Recompletion Plugging Back	11. County or Parish, State Lea, NM PR OTHER DATA Change of Plans	
660 Sec	'FNL & 990' FEL (Unit A), tion 20, T-24-S, R-37-E, N.M.P.M CHECK APPROPRIATE BOX(s TYPE OF SUBMISSION Notice of Intent	s) TO INDICATE NATURE OF NOTICE, REPORT, O TYPE OF ACTION Abandonment Recompletion	11. County or Parish, State Lea, NM PROTHER DATA Change of Plans New Construction Non-Routine Fracturing	

The Jack "A-20" No. 9 well was drilled and completed, by Conoco, in 1974, as an open-hole Jalmat gas well (over the Yates-Upper 7R interval). To make the wellbore useable, and simultaneously bring the wellbore into compliance with NMOCD Rule No. 106(c), by hydraulically isolating the low-pressure Jalmat (Yates) gas zone, from the upper portion of the Langlie Jack Unit 7R-Qn water injection interval, between 2/13/02 and 2/27/02, a 4 1/2" O.D. flush-joint liner was installed in the Jack "A-20" No. 9 open-hole section, and squeezed into place, as outlined on pages 2 of 4 thru 4 of 4, attached hereto.

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.



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Details of Completed Wellbore Repair Work

Tied pump truck to 8 5/8" O.D. surface casing. Pumped 10 bbls of water down 8 5/8" x 5 1/2" casing annulus, with water returns back to surface, on outside of 8 5/8" O.D. casing.

Moved in well service unit, on 2-13-02. Pulled and laid down rods and tubing. Ran and set 5 1/2" Model "C" RBP, at 2740'. Pulled 2 3/8" O.D. tubing. Moved well service unit to side of location.

Moved in backhoe. Dug out around well. Found (2) holes in 8 5/8" O.D. surface casing, approximately 4' below ground level. Found good cement-protected 8 5/8" O.D. casing approximately 9' below ground level.

Rigged up welder. Repaired 8 5/8" O.D. surface casing, by welding casing patches over defective sections of 8 5/8" O.D. casing. Pressured 5 1/2" O.D. casing to 500 psi. Tied pump truck to 8 5/8" O.D. casing. Pumped 28 bbls of water down 8 5/8" x 5 1/2" casing annulus. Observed no further leaks or returns back to surface.

Wrapped exposed 8 5/8" O.D. casing, with corrosion resistant tape. Installed 52" O.D. corrugated steel cellar can. Backfilled around cellar can. Installed B&M Oil Tool 5 1/2" x 2 3/8" x 3 1/2" 3000-psi Type MR tubinghead.

Moved well service unit back onto well. Picked up and ran into hole with 2 3/8" O.D. tubing. Rabbited 2 3/8" O.D. tubing, while running into hole. Found thin buildup of iron sulfide on inside of 2 3/8" O.D. tubing.

Hooked up air unit. Unloaded water from 5 1/2" O.D. casing, to blowdown tank. Pulled 2 3/8" O.D. tubing and 5 1/2" Model "C" RBP.

Ran 606' bottom-hole drilling assembly equipped with 4 3/4" button bit. Hit soft fill at 3118'. Hooked up foam unit. Drilled 4 3/4" hole to 3353'. Circulated hole clean and dry. Pulled bottom-hole drilling assembly.

Ran 241.93' bottom-hole assembly equipped with 4 1/2" x 6 1/4" under reamer. Under reamed hole, from 3129' to 3170', to a hole diameter of 6 1/4". Circulated hole clean and dry. Pulled and laid down under reamer.

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Ran 492.29' string-mill assembly. Rotated 4 3/4" O.D. string-mill assembly, from 3170' to 3353'. Circulated hole clean and dry. Pulled and laid down 4 3/4" O.D. string mills.

Ran and landed 4 1/2" O.D., 11.6 lb/ft, J-55, FJ liner, from 2686'-3353'.

Ran and set 5 1/2" Model "C" packer, at 2523'. Squeeze cemented 4 1/2" O.D. liner into place, utilizing 1450 cu. ft. (1100 sx) of cement slurry, consisting of 900 sx of API Class "C" cement containing 2.5% CaCl₂, 2 lb/sx Gilsonite, and 0.25 lb/sx Flocele, followed by 200 sx of API Class "C" cement containing 2% CaCl₂, 2 lb/sx Gilsonite, and 0.25 lb/sx Flocele. Pumped cement at an average pump rate of 10.5 BPM and average pump pressure of 2300 psi. Displaced cement to 2543' (20' below 5 1/2" Model "C" packer). Staged to a final pressure of 2420 psi. Pulled 5 1/2" Model "C" packer. Pressured 5 1/2" O.D. casing to 1000 psi.

Tied Halliburton to 8 5/8" O.D. casing. Cemented upper portion of 5 1/2" O.D. casing string, by pumping down 8 5/8" x 5 1/2" casing annulus, with 2100 cu. ft. (1600 sx) of API Class "C" cement containing 3% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele, at an average pump rate of 11 BPM, and average pump pressure of 680 psi. Minimum pump rate = 6 BPM, at 580 psi. ISIP = 140 psi. 5-min SIP = 40 psi.

Filled 52" O.D. corrugated steel cellar can with 70 sx of cement.

Ran 474.04' large-bore bottom-hole drilling assembly consisting of 4 3/4" bit and (16) 3 1/2" O.D. drill collars. Drilled hard cement, from 2515' to 2686' (top of 4 1/2" O.D. liner). Circulated hole clean. Pulled and laid down large-bore bottom-hole drilling assembly.

Ran 243.35' small-bore drilling assembly consisting of 3 7/8" blade bit and (8) 3 1/8" O.D. drill collars. Drilled hard cement to 3337'. Loaded hole with clean 2% KCl water. Pressure tested wellbore, from surface to 3337', to 2000 psi. Pressure held okay. Pulled bottom-hole drilling assembly.

Rigged up Schlumberger. Logged well with SAS-CNL-GR-CCL log and VDCBL-GR-CCL log.

Select-fire perforated Jalmat (Yates) gas zone with (26) 0.38" x 17" holes, with one shot each at:

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2955	2988	3010	3043	3093	3121
2961	2996	3014	3046	3097	
2974	3000	3018	3053	3103	
2979	3003	3028	3060	3106	
2983	3006	3030	3089	3115	

Ran 4 1/2" Model "C" packer to 3141'. Pumped 150 gal of 15% MCA acid down 2 3/8" O.D. tubing. Allowed acid to fall and equalize. Raised and set 4 1/2" Model "C" packer at 2843'. Pumped an additional 550 gal of 15% MCA acid down 2 3/8" O.D. tubing. Let acid soak for one hour.

Acidized Jalmat (Yates) perfs, from 2955' to 3121' (26 holes), with an additional 5000 gal (total of 5700 gal) of 15% MCA acid and 38 ball sealers, at an average treating rate of 4.1 BPM and average treating pressure of 1400 psi. Maximum treating pressure = 3135 psi (at ballout, on 35th ball). ISIP = 159 psi. 30-sec SIP = 0 psi.

Lowered 4 1/2" Model "C" packer. Knocked off balls. Pulled and laid down 5 1/2" Model "C" packer.

Ran and landed 2 3/8" O.D. tubing at 3278' RKB (101 jts @ 32.14'/jt + (1) 6' Sub + 1.1'SN + 18'MA - 3'AGL + 10'KBC = 3278.2'). Ran 2" x 1 1/4" x 12' RHAC insert pump. Started pumping well, and recovering load, at 3:00 P.M., CST, 2-27-02.

Note: By virtue of the subject 4 1/2" O.D. flush-joint liner installation, and corresponding 1100 sx squeeze job, the low-pressure Jack "A-20" No. 9 Jalmat (Yates) gas zone is now effectively isolated from the underlying Langlie Jack Unit 7R-Qn water injection interval.

Langlie Jack Unit Unitized Interval: Seven Rivers-Queen

HOBBS DIVISION 水UG 13'68 Div. C!1, 3421. Cons'v. Georg.

UNITED STATES. ~ DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT DIVISION OF LANDS & MINERALS PROGRAM MANAGEMENT & LAND OFFICE P. O. Box 1449 Santa Pe, New Mexico 87501

LC 032325(a) NM 7486 Oil & Gas 4.70a

August 14, 1968

DECISION

Lessee: W. M. Beauchamp, Ancillary Guardian of the Estate of William Howard Jack, an incompetent person, Annie May Kavanaugh, Abner M. Jack, Guy Jack, Jr., and Florence Jack Nayo

Unit: Langlie Jack Unit Unit No.: 14-08-0001-8910 Base Lease: LC 032326(a) Exchange Segregated Lease: NM 7486 Exchange Leases Dated: December 1, 1957

Unit Effective: Nay 1, 1968

Lease Segregated, PL 86-705, Sept. 2, 1960 (74 Stat. 784 Sec. 171) Title 43 CFR Subpart 3127.4(c)

this should be 1968

Effective May 1, 1948) oil and gas lease LC 032326(a) was unitized in part as to the Seven Rivers - Queen interval. The committed land in the base lease is described in Item 1. The non-committed land in the segregated lease is described in Item 2:

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Item 1 , R. 37 E. T. 24 S. NMPM Sec. 20: E

Sec. 21: SW\SW\\ Sec. 29: NETNET

Seven Rivers

Queen interval only

400.00 acres

T. 24

R. 37 E., NMPM E. E. (All formations except Seven Rivers) Sec. 20:

Queen interval)

Sec. 21: SWESWE (All formations except Seven *

Rivers - Queen interval)

NELNE: (All form tions except Seven

Rivers - Queen interval)

Sec. 29: Winet, SEINEt, Niset, SWESEL (All formations)

640.00 acres

Abner M. Jack, Guy Jack., Jr. and Florence Jack Mayo are deceased. Satisfactory evidence of the final probate proceedings for these parties will be formally accepted as soon as the qualifications for the heirs are received.

Both leases are producing.

Padilla, Fred Branch of Oil and Gas

"Distribution Regional Oil & Gas Supvr. (4) Branch of Oil and Gas

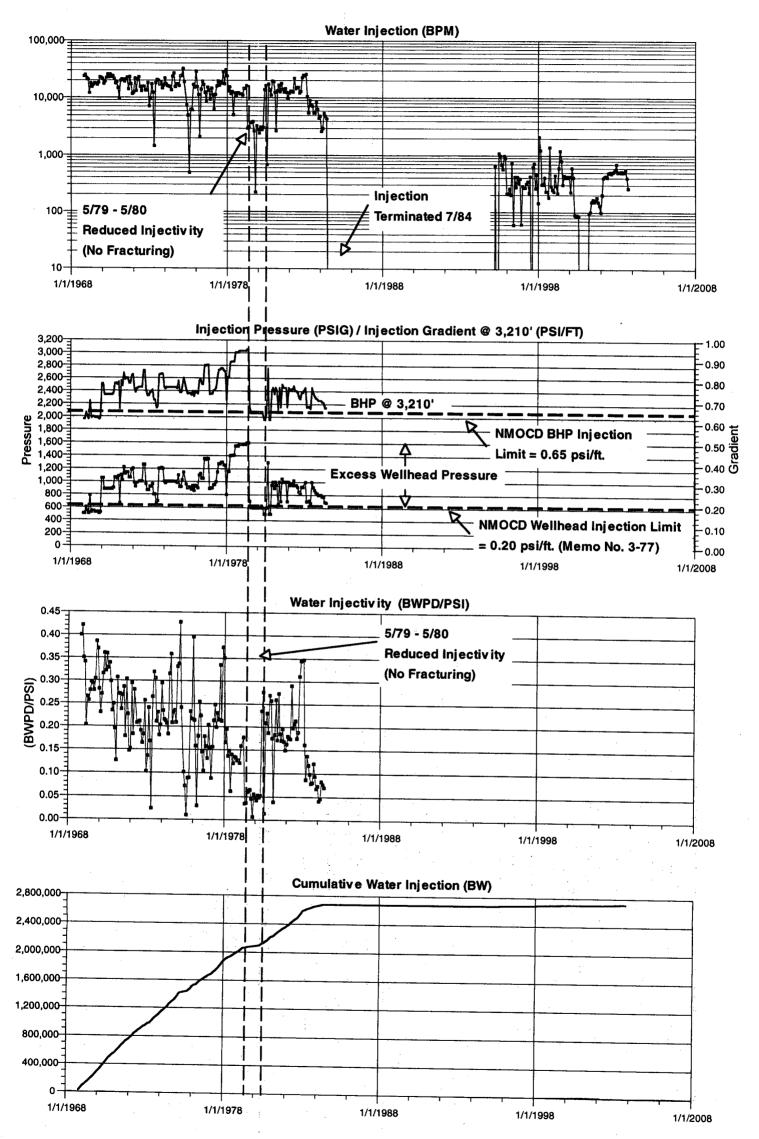
Langlie Jack Unit File (3)

Unit Operator Continental Oil Company P. O. Box 460 Hobbs, New Mexico 88240

Opinion sent to you as a courtesy with the understanding that Conoco Inc. cannot be responsible if you should rely on same to your detriment

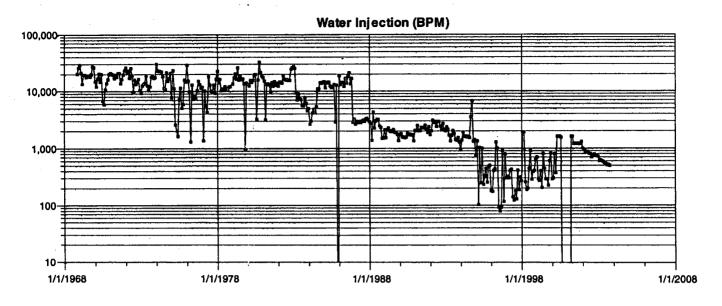
LANGLIE JACK UNIT # 12 LANGLIE MATTIX (7R-Q) I - 20-24S-37E

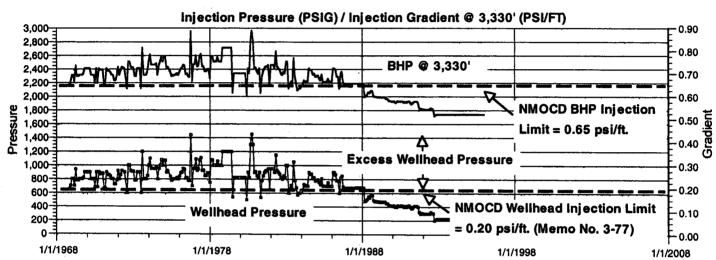
CONOCO INC. / SANTA FE EXPL. CO. / MCDONNOLD OPER. INC.

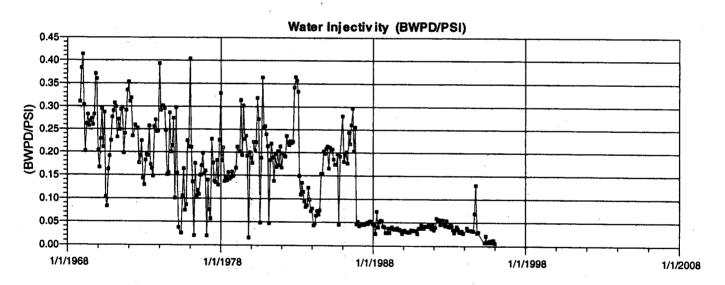


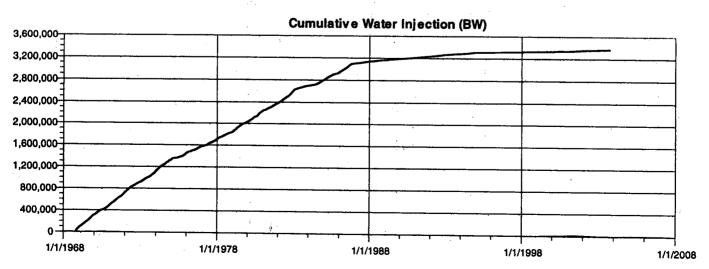
LANGLIE JACK UNIT # 14 LANGLIE MATTIX (7R-Q-GRB) O-20-24S-37E

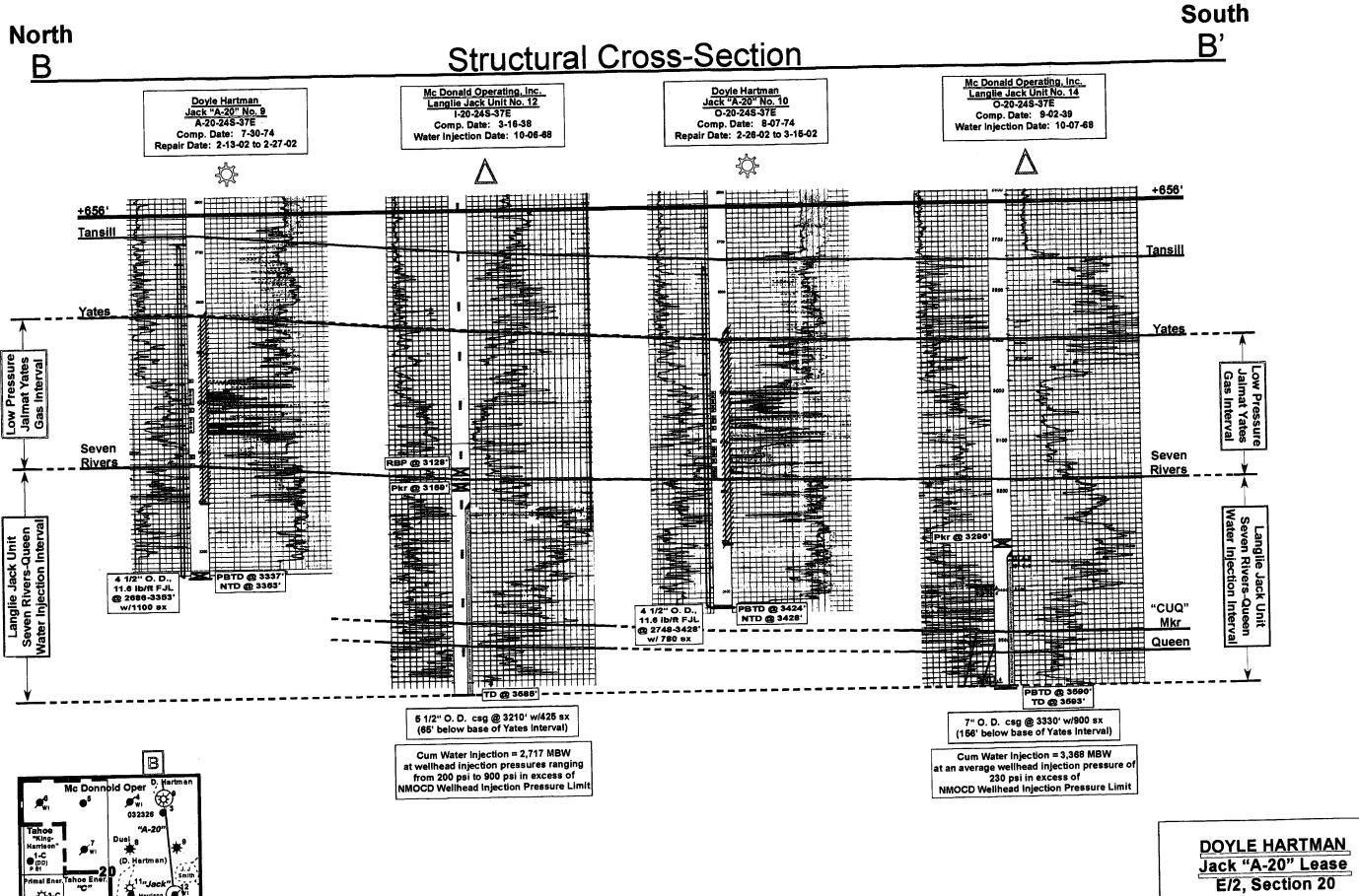
MCDONNOLD OPERATING INC.











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Jack "A-20" Lease E/2, Section 20 T-24-S, R-37-E Lea County, New Mexico