

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL API NO.	30-025-26278
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	B-229-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>				7. Lease Name or Unit Agreement Name Arnott Ramsay "NCT-B"	
b. Type of Completion: NEW WELL <input type="checkbox"/> WORK OVER <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER <input type="checkbox"/>					
2. Name of Operator Doyle Hartman				8. Well No. 6	
3. Address of Operator 500 N. Main St., Midland, TX 79701, (432) 684-4011				9. Pool name or Wildcat Jalmat (T-Y-7R) Oil	
4. Well Location Unit Letter <u>J</u> : 1990' Feet From The <u>South</u> Line and 1980' Feet From The <u>East</u> Line Section <u>32</u> Township <u>25S</u> Range <u>37E</u> NMPM <u>Lea</u> County					
10. Date Spudded 04/06/1979	11. Date T.D. Reached 04/12/1979	12. Date Compl. (Ready to Prod.) 08/22/2001	13. Elevations (DF & RKB, RT, GR, etc.) 2984' GR	14. Elev. Casinghead 2986'	
15. Total Depth 3600'	16. Plug Back T.D. 3315'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools 0' - 3600'	Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 2655' - 3178' (Y-7R)					20. Was Directional Survey Made No
21. Type Electric and Other Logs Run DS-CNL-GR-CCL, VDCBL-GR-CCL					22. Was Well Cored No
23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24 #/ft	349'	12 1/4"	255 sx	Circ.
5 1/2"	15.5 #/ft	3600'	7 7/8"	910 sx	Circ.
24. LINER RECORD					
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	
26. Perforation record (interval, size, and number) 2655' - 3178' w/ (30) 0.38" x 17" Holes				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
				2655' - 3178'	A/ 8600 Gal.
				2655' - 3178'	SWF/ 209,279 Gal. & 368,150 #
28. PRODUCTION					
Date First Production 08/22/2001		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing / Pumping (7.5 x 64 x 1 1/4)			Well Status (Prod. or Shut-in) Producing
Date of Test 08/31/2001	Hours Tested 24 Hrs	Choke Size 34/128	Prod'n For Test Period	Oil - Bbl. 4	Gas - MCF 313
Flow Tubing Press.	Casing Pressure 41 psig	Calculated 24-Hour Rate	Oil - Bbl. 4	Gas - MCF 313	Water - Bbl. —
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold					
30. List Attachments					
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief					
Signature <u>Steve Hartman</u>		Printed Name <u>Steve Hartman</u>		Title <u>Engineer</u>	Date <u>10/17/2005</u>

2A Langlie Mattix SR. QN. GB Kz

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all specific tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____ 2510'	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 2656'	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____ 2930'	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 3300'	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____	T. _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from to
No. 2, from to
No. 3, from to
No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet

No. 2, from to feet

No. 3, from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

Doyle Hartman
Arnott Ramsay "NCT-B" No. 6
(J) 32-25S-37E
Lea County, New Mexico
API No.: 30-025-26278
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Details of Completed Operations

7-16-01

Moved in and rigged up well service unit. Pulled and laid down 2" x 1-1/4" x 16' pump and (127) 3/4" x 25' rods.

Lowered 2-3/8" O.D. tubing 9' before tagging up. Pulled and laid down 104 jts of original 2-3/8" O.D. tubing. PBTD at 3263.18' RKB, with 7' of original 2-3/8" O.D. mud anchor still in bottom of well.

7-17-01

Ran 94 joints of **new** 2-3/8" O.D. tubing and 178.38' bottom-hole drilling assembly. Hooked up air unit. Unloaded fluid to blowdown tank.

Cleaned out to 3268'. Circulated hole clean. Loaded hole with 72 bbls of 2% KCl water.

7-18-01

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

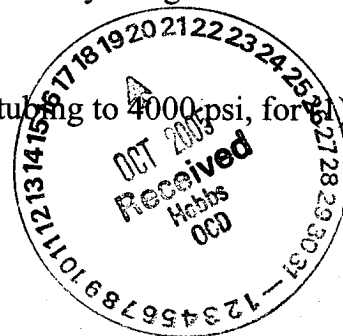
7-19-01

Ran 2-3/8" O.D. tubing and 5-1/2" Model "C" packer. Set packer at 3077'.

Squeezed perfs with 500 sx (112 bbls) of API Class "C" cement slurry. Staged to a final squeeze pressure of 4500 psi.

Raised 5-1/2" Model "C" packer 4 joints. Pressured 2-3/8" O.D. tubing to 4000 psi, for one hour.

Pulled and laid down 5-1/2" Model "C" packer.



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Ran 178.38' bottom-hole drilling assembly. Hooked up reverse drilling system. Drilled green cement from 3132' to 3200'. Circulated hole clean. Raised tubing 1 joint. Pressured 5-1/2" O.D. casing to 800 psi. Shut down for night.

7-20-01

Drilled 68' of **hard** cement in 2.75 hours (24.7 ft/hr). Tagged steel at 3268'.

Pulled 178.38' bottom-hole drilling assembly.

Ran 95 jts of 2-3/8" O.D. tubing and 193.38' wash-pipe assembly consisting of 4-3/4" x 4-1/2" x 4.11' shoe, 1 jt of 4-1/2" O.D. x 11.15' wash pipe, and (6) 3-1/2" O.D. drill collars. Circulated out frac sand until tagging hard cement at 3281'.

Pulled wash-pipe assembly.

Pressure tested 5-1/2" O.D. casing to 1500 psi (0'-3281'). Pressure held okay.

7-21-01

Ran 178.38' bottom-hole drilling assembly. Hooked up reverse unit. Drilled on steel and cement, between 3279' to 3286' (2.0 ft/hr). At 3286', returns contained no steel slivers.

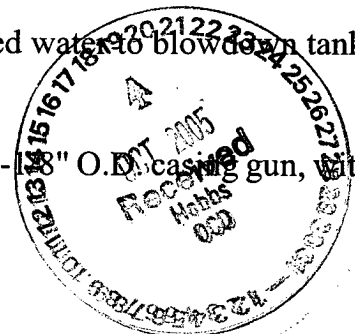
Pulled 178.38' bottom-hole drilling assembly. Removed worn 4-3/8" cone bit.

Ran bottom-hole drilling assembly equipped with 4-3/4" blade bit. Drilled 29' of cement, from 3286' to 3315', in 5.47 hours. Circulated hole clean. New PBTD at 3315'.

7-22-01

Ran 2-3/8" O.D. tubing to 3187'. Hooked up air unit. Unloaded water to blow down tank. Pulled 2-3/8" O.D. tubing.

Rigged up wireline truck. Perforated 5-1/2" O.D. casing, with 3-1/8" O.D. casing gun, with (30) 0.38" x 19" holes, with one shot each, at:



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2655	2685	2732	2895	2927	3151
2663	2703	2750	2900	2975	3158
2669	2719	2755	2909	2980	3171
2678	2722	2758	2916	3122	3174
2681	2729	2763	2921	3125	3178

Spotted acid across and above perfs, from 2895' to 3178', by pumping 400 gallons of 15% MCA acid, followed by 0.5 bbls of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 5-1/2" Model "C" packer at 2856'. Pumped an additional 100 gal of 15% MCA acid down 2-3/8" O.D. tubing. Allowed acid to soak for 20 minutes.

Acidized perfs, from 2895' to 3178' (15 holes), with an additional 2525 gal of 15% MCA acid and 21 ball sealers, at an average treating rate of 4.4 BPM and average treating pressure of 1478 psi. Flushed acid with 18.7 bbls of 2% KCl water. ISIP = 266 psi.

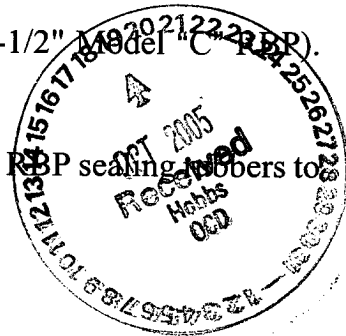
Raised and set 5-1/2" Model "C" RBP, at 2860'. Spotted acid across and above perfs, from 2655' to 2763' (15 holes), by pumping 200 gal of 15% MCA acid followed by 0.5 bbls of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 5-1/2" Model "C" packer at 2597'. Pumped an additional 100 gal of 15% MCA acid down 2-3/8" O.D. tubing. Let acid soak for 20 minutes.

Acidized perfs, from 2655' to 2763' (15 holes), with an additional 2675 gal of 15% MCA acid and 22 ball sealers, at an average treating rate of 4.5 BPM and average treating pressure of 845 psi. ISIP = 72 psi. 1-min SIP = 0 psi.

Lowered and reset 5-1/2" Model "C" packer, at 2856' (4' above 5-1/2" Model "C" RBP). Tested 5-1/2" Model "C" RBP. RBP would not hold pressure.

Pulled 5-1/2" Model "C" packer and 5-1/2" Model "C" RBP. Found RBP sealing rubbers to be collapsed. Laid down inoperable RBP.



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Ran 2-3/8" O.D. tubing equipped with 5-1/2" Model "C" packer and replacement 5-1/2" Model "C" RBP. Set 5-1/2" Model "C" RBP at 2805' and 5-1/2" Model "C" packer at 2791'. Pressure tested 5-1/2" Model "C" RBP to 3000 psi. Pressure held okay.

Raised and set 5-1/2" Model "C" packer at 2597'. Re-acidized perfs, from 2655' to 2763', with an additional 2600 gal of 15% MCA acid and 25 ball sealers, at an average treating rate of 4.0 BPM and average treating pressure of 1935 psi. Flushed with 14 bbls of 2% KCl water. ISIP = 56 psi. 10-sec SIP = 0 psi. Balled out 3 times.

Raised and set 5-1/2" Model "C" RBP at 2606' (above all perfs). Left 5-1/2" Model "C" packer hanging, at 2597'.

Shut down for remainder of night.

7-23-01

Attempted to pull out of hole with 5-1/2" Model "C" packer and 5-1/2" Model "C" RBP. 5-1/2" Model "C" RBP would not move in upward direction.

Pulled 2-3/8" O.D. tubing. Laid down 5-1/2" Model "C" packer.

Ran 2-3/8" O.D. tubing equipped with retrieving head. Worked with 5-1/2" Model "C" RBP until retrieving neck came free.

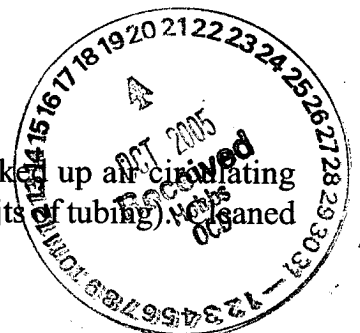
Pulled 2-3/8" O.D. tubing. Recovered RBP control bar and portion of 5-1/2" Model "C" RBP **above** top packing element.

7-24-01 and 7-25-01

Unsuccessfully fished for remainder of 5-1/2" Model "C" RBP.

7-26-01

Ran cone-buster mill, oil jars, and (6) 3-1/2" O.D. drill collars. Hooked up air circulating equipment. Commenced pumping foam and cleaning out at 3230' (95 jts of tubing). **Cleaned**



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out to prior PBTD of 3315', with remainder of RBP still below mill. Circulated hole clean. Blew hole dry.

Pumped 4 bbls of 2% KCl water down tubing, to protect squeezed perms (3248' to 3250'). Pulled bottom-hole assembly. Shut down for night.

7-27-01

Ran and landed bottom of 2-3/8" O.D. tubing, at 3252' RKB (100 jts @ 32.25 ft/jt + 1.1' SN + 18' MA - 1' AGL + 10' KBC = 3252.10'). Ran 2" x 1-1/4" x 12' RHAC top hold-down insert pump and 3/4" API Class "KD" rod string consisting of (128) 3/4" x 25' rods, (2) 3/4" x 8' subs, (1) 3/4" x 6' sub, and 1-1/4" x 16' polish rod.

Commenced pump testing well.

8-6-01

Moved in and rigged up well service unit.

Pulled rods and tubing. Covered squeeze perms (3248'-3250') with 15 sx of 20/40 frac sand.

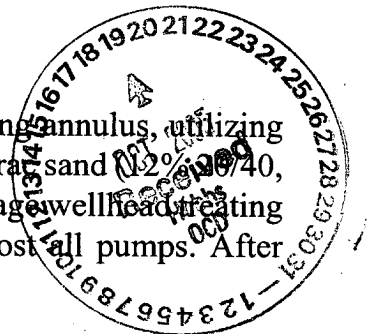
Ran 2-3/8" O.D. tubing. Tagged top of frac sand, at 3195' RKB (98 jts @ 32.25 ft/jt + 7' of 99th jt + 1.1' SN + 18' MA - 2' AGL + 10' KBC = 3194.6').

Raised bottom of tubing to 2641' (81 jts @ 32.25 ft/jt + 1.1' SN + 18' MA + 2' CBJ - 2' AGL + 10' KBC = 2641.35').

Installed 3-1/2" heavy-duty frac valves.

8-7-01

Rigged up Halliburton. Performed CO₂ foam frac down casing-tubing annulus, utilizing 209,279 gal of gelled water and CO₂ (54.5% CO₂) and 368,150 lbs of frac sand (12% 20/40, 19% 10/20, 69% 8/16), at an average treating rate of 41 BPM and average wellhead treating pressure of 2369 psi. While pumping 8/16 frac sand, Halliburton lost all pumps. After repairing pumps and resuming frac, Halliburton ran out of CO₂.



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ISIP = 910 psi
5-min SIP = 26 psi
10-min SIP = 717 psi
15-min SIP = 866 psi

Left well shut in for 89 minutes. Cleaned up well to blowdown tank, for 14.25 hours.

8-8-01

Hooked up air cleanout equipment. Cleaned out frac sand to PBTD of 3315'. Circulated hole clean and dry.

Raised bottom of mud anchor to 2725'. Installed pressure recorder. Left well flowing overnight to blowdown tank.

8-9-01

Lowered 2-3/8" O.D. tubing. Tagged up 3308' (7' of fill).

Hooked up air equipment. Cleaned out additional 7' of fill.

Raised and landed bottom of tubing at 3252' (100 jts @ 32.25 ft/jt + 1.1' SN + 18' MA - 2' AGL + 10' KBC). Made up wellhead.

Ran 2" x 1-1/4" x 12' RHAC top hold-down insert pump and 3/4" rod string consisting of (128) 3/4" x 25' Axelson S-87 API Class "KD" rods, (2) 3/4" x 8' rod subs, (1) 3/4" x 2' rod sub, and 1-1/4" x 16' polish rod. Commenced pumping and cleaning up well, at 12:15 P.M., 8-9-01, at 7.5 Spm x 64" x 1-1/4".

8-31-01

P/313 MCFPD + 4 BOPD + 4 BWPD; CP = 41 psi.

