12-313 OCD-HOBBS FORM APPROVED Form 3160-3 HOBBS OCD (February 2005) OMB NO. 1004-0137 UNITED STATES Expires: March 31,2007 AUG 07 2013 DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT NM-120907 APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allottee or Tribe Name N/A 7. If Unit or CA Agreement, Name and No. **X** REENTER Ia. Type of Work: DRILL N/A 8. Lease Name and Well No. Oil Well Gas Well X Other X Single Zone Jackson Federal SWD #1 Type of Well: Multiple Zone 1b. Name of Operator 9. API Well No. 025575 Yates Petroleum Corporation 30-025-28242 3a. Address Field and Pool, or Exploratory No. (include area code) 96801 WD --inject into the Bell Canyon and Cherry 105 South Fourth Street, Artesia, NM 88210 575-748-1471 Canyon of Delaware Mt. Group. 4 Location of well (Report location clearly and In accordance with any State requirements.*) 11. Sec., T., R., M., or Blk. And Survey or Area At surface 660! FNL & 660' FWL, NWNW, Section 26-T24S-32E Sec. 26-24S-32E At proposed prod. zone Same 14. Distance in miles and direction from the nearest town or post office* 12. County or Parish 13. State Approximately 40 miles southeast of Carlsbad, NM NM Lea 16. No. of acres in lease 15 Distance from proposed 17. Spacing Unit dedicated to this well location to nearest lease line 1640.00 None-SWD well (Also to nearest drlg. unit line, if any) 660 19. Proposed Depth 18. Distance from proposed location* 20. BLM/ BIA Bond No. on file to nearest well, drilling, completed, Approx. 2700' NATIONWIDE BOND #NMB000434 applied for, on this lease, ft. 6550' 21. Elevations (Show whether DF, KDB, RT, GL, etc.) Estimated duration 22. Aproximate date work will start* 23 3571 per plat 3569.CI ASAP 30 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by existing bond on file(see 2. ap item 20 above) A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 3. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/ or plans as may be required by the BLM 25. Signature Name (Printed/ Typed) Date Cv Cowan Title Land Regulatory Agent Approved By (Signature) /s/George MacDonell Name (Printed/ Typed) /s/George MacDonell Date - 2 2013 AUG Title Office CARLSBAD FIELD OFFICE FIELD MANAGER Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to cc operations thereon. APPROVAL FOR TWO YEARS Conditions of approval, if any, are attached Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and wilfully to make to any department or agency of the Uniter States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. * (Instructions on page 2) SWD-1308 Carlsbad Controlled Water Basin SEE ATTACHED FOR CONDITIONS OF APPROVAL Approval Subject to General Requirements

& Special Stipulations Attached

YATES PETROLEUM CORPORATION Jackson Federal SWD #1 Re-entry 660' FNL and 660' FWL Section 26-T24S-R32E Lea County, New Mexico

- The estimated tops of geologic markers are as follows: 869' Bell Canyon 4.892' Rustler 1.178' Cherry Canyon 5.685' Salado Brushy Canvon 7.149' 3.139' Castille 4,490' 8,794' BOS Bone Springs Lamar Lime 4,868'
- 2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: Already Cased Off Oil or Gas: None—This will be a SWD well for Yate's water

- 3. Pressure Control Equipment: An 11" 5M BOP will be installed on the 8 5/8" casing and rated to 5000 PSI. Pressure tests on this re-entry will be conducted when nippled up before drilling out surface plug and prior to drilling the intermediate plug. Blowout Preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.
- 4. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when Kelly is not in use.
- 5. THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: All new casing to be used

<u>Hole Size</u>	Casing Size	<u>Wt./Ft</u>	Grade	Coupling	Interval	<u>Length</u>
17 1/2"	13 3/8"	61#	K-55	ST&C	0-622'-in j	place
11"	8 5/8"	24# & 32#	K-55	ST&C	0-4973'-in	place
7 7/8"	5 1/2"	15.5#	J-55	LT&C	0-6550'	6550'

Minimum Casing Design Factors: Burst 1.0, Tensile Strength 1.8, Collapse 1.125

B. CEMENTING PROGRAM:

Surface Casing: Originally cemented with 750 sacks and circulated to surface.

Intermediate Casing: Originally cemented with 1500 sacks and cement circulated to surface.



Production Casing: Production casing will be cemented in two stages with a DV tool set at 5023'.

Stage One: Cement with 369 sacks with 369 sacks Pecos Valley Lite(Yld. 1.41 Wt. 13.00) with D112 0.4%; D151 22.5 lb/sack; D174 1.5 lb/sack: D177 0.01 lb/sack; D800 0.6 lb/sack; and D46 0.15 lb/sack. Cement designed with 25% excess. TOC 5023'.

Stage Two: Cement with 716 sacks 35:65:6 PzC (Yld. 2.00 Wt. 12.5). Tail in 200 sacks Class C (Yld. 1.34 Wt. 14.80) with CaCl2 2%. Cement designed with 25% excess. TOC surface'.

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6. MUD PROGRAM: If the mud in the well bore is satisfactory condition Yates would circulate with the mud in the hole. If it is not satisfactory Yates would displace and drill with cut brine with 8.9-9.3 ppg possibly with a small amount of fluid loss.

7. EVALUATION PROGRAM:

Samples: None Logging: Open hole logs are available. Will run GR/CBL log. Coring: None DST: None

8. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE AND POTENTIAL HARZARDS:



Maximum Anticipated BHP: 3870 PSI Abnormal Pressure Anticipated: None Lost Circulation Zones Anticipated: None H2S Zones Anticipated: None Maximum Bottom Hole Temperature: 80 F

9. ANTICIPATED STARTING DATE:

Plans are to reenter this well as soon as possible after receiving approval of the APD and the application for an easement for the drill pad and SWD facility pad as well as the road access which has been applied for.

A. RE-ENTRY PLANS:

The Jackson Federal #1 was spudded on 6/25/83 and P&A on 7/27/83. They drilled the well to a TD of 8,620'. They did not set production casing in this well, only surface and intermediate casing. Both casing strings are cemented to the surface. This well is not a Yates lease. Yates has approval to inject into this well, SWD-1308.

March

Yate's plan is to re-enter the well with a completion unit. Plan to drill the surface plug out with a 7 7/8" bit, pick up drill collars and drill out the plug across the intermediate casing shoe at 4,988' and circulate. If existing mud in the well bore is in satisfactory condition Yates would circulate with the mud in the hole. If not Yates would displace and drill with cut brine with a probably 8.9-9.3 ppg possibly with a small amount of fluid loss. Yates would trip in the hole through the open hole and clean out to about 6,700'. Yates will then set a 100' 50 sack cement plug of Class H with CFR-3 0.4%; Gilsonite 3.0 lb/sack; HALAD4-344 0.5%; HR-800 0.2% and Poly-E-Flake 0.125 lb/sack designed with 10% excess with the top of cement with @ 6,500' and set 5 1/2" 15.5# J-55 casing and cement to surface in two stages with DV tool at 5023'. Yates will then perforate permeable sands between 5,300' and 6,550' and fracture stimulate. Yates will set a 5 1/2"nickel plated injection packer 100' above the top perforation and run plastic coated 2 7/8" or 3 1/2" tubing and turn the well over to production for injection.

See COA Frac treatment approval on SWD unlikely, Eundry required

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ENGINEERING ANALYZATION OF PROJECT:

Yates Petroleum Corporation does not plan any production testing in this well. The re-entry will be for injection only. There isn't any production from the same zone that Yates is planning to inject into. Also there isn't any production in the immediate area or townships surrounding this well. There is some old, minor production in the upper Bell Canyon (above the proposed injection interval) the next productive interval is the Brushy Canyon as Yates identified in the Haracz wells to the west and the Bone Springs, and currently mostly in the Avalon Shale. This well was drilled and abandoned, without finding anything worthy of testing from Bell Canyon down to the Bone Springs. The closest wells to this location are dry holes also. Those wells were drilled through the Bell Canyon zone and were non-productive.

All production in this area is/was from the Upper Bell Canyon of the Delaware. It isn't and never was very good, only with minor oil and very high water production. There are two injection wells to the west, the Exxon A Federal #2 and US Smelting Federal #5, both injecting into perfs in the Bell Canyon interval that is/was produced in their surrounding wells. The recent Turquoise SWD well just west of this well in Section 30 (SWD order 1203) were approved for injection into the exact same sands that Yates are proposing to inject into.







Operator: Yates Petroleum Corporation Well Name: Jackson Federal No. 1 API#: 3002528242 Lease#: NM120907 Location of Well: T24S-R32E, Sec 26, 660FNL – 660FWL

Proposed Injection Interval: Bell and Cherry Canyon (Delaware) 5300-6424

Review Date: 02/08-09/2012 NMOCD Application Date: 09/23/2011

This well has a New Mexico Oil Conservation Division Form C108 Application for Authorization to Inject. The source of the disposal water will be producing wells. The well seems to be structurally sound for conversion purposes. A review of wells that penetrate the injection zone within a half mile appear not to be adequately constructed or P&A. See well summary spread sheet below. At this time BLM has issues/objections for this well's use as a produced water disposal well.

as of 02/08/2012 - 02 OFFSET WELLS in Radius of 2700'													
Evaluation of Proposed WDW		± Distar from W		Includes information from the web sites: http://www.wellpromapping.com/ & http://ocdimage.emnrd.state.nm.us/imaging/									
API Surface			Hole Size "+TD' Casing Description, Top of Casing-Shoe Depth, DV		Open Hole/Perfs			•					
OPERATOR	WELL NAME No.	30025	SPUD	Vertical	Status	'≠ Msrd'=Vert'	Tool Depth, Sx Cmt, TOC	Open	How Abandoned	Formations	T.A.	Plugged	Lease #
0 ExxonMobile	Jackson Fed 1	28242	06/25/83	0	P&A	17.5, 622	13.375 61# K55, 750sx circ 20sx	1	4 plugs from 8620-			07/26/83	NM120907
						11, 4923	8.625 32# & 24# K55, 2200sx circ 550sx	i	76sx, 5006-200sx, 684-	Delaware &			
						7.875, 9350		4923-9350	50sx, & 50-2yds	Bone Springs			
1 R É Williamson	Wright Fed 1	24948	01/16/75	660	P&A	, 4937	4 1/2 10.5# J55, 150sx 4452 TOC temp	4885-92 frac'd	CIBP 4775 w/cmt cap,	Delaware		09/09/200	NM91
L									cmt plugs set from				ł
									2550-2030, & 402-0.				
2 M&G	US Smelting SWD 5	08161	10/04/62	990	WDW	, 4995	NMOCD is in process of taking over operator's properties,						LC062269a
							which are SI per EL Gonzales. Did not find OCD inj order for this WDW.						
							Dustin Winkler approved a NOI to plug this well 12/08/2009.	4913 frac'd		Delaware			



Typical 5,000 psi choke manifold assembly with at least these minimun features



Jackson SWD#1 YATES PETROLEUM CORPORATION

Piping from Choke Manifold to the Closed Loop Drilling Mud System



The flare discharge must be 100' from wellhead for non H2S wells and 150' from wellhead for wells expected to encounter H2S.