

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
NM OIL CONSERVATION
Division of Minerals and Natural Resources
ARTESIA DISTRICT
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

MAR 15 2018

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Percussion Petroleum Operating, LLC 919 Milam, Suite 2475 Houston TX 77002 (713) 518-1331		² OGRID Number 371755 ³ API Number 30-015-00604
⁴ Property Code 321016	⁵ Property Name Chalk Bluff State SWD (fka, New Mexico State BZ 1 & Chalk Bluff Unit 2)	⁶ Well No. 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Lin	County
K	32	17S	27E		1930	S	1880	West	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

Pool Name	Pool Code
SWD; WC-Cisco-Canyon-Strawn	98079

Additional Well Information

¹¹ Work Type E	¹² Well Type S	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation ≈3437' (3445' DF)
¹⁶ Multiple N	¹⁷ Proposed Depth 9294'	¹⁸ Formation Canyon	¹⁹ Contractor to be determined	²⁰ Spud Date upon approval
Depth to Ground water 140' (RA 03661)		Distance from nearest fresh water well 419' to RA 03661		Distance to nearest surface water ≈700' NE of nameless draw

A closed-loop system will be used in lieu of lined pits.

21. Proposed Casing and Cement Program

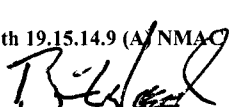

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	15.5"	11.75"	42	GL - 572'	>100	GL (Circ.)
Intermed.	11"	8.625"	32	GL - 3687'	1500	GL (Circ.)
old Prod.	6.75"	5.5"	14, 15, & 17.5	7600' - 9425'	380	7615' (TS)
new Prod.	6.75"	5.5"	17	GL - 7600'	330	5000' (TS)

Casing/Cement Program: Additional Comments

See attached diagram. Once new csg is cemented, run temp. log, perf 6100' - 8950', & set pkr & 2.875" IPC tbg @ ≈6050'.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
annular & rams	5000 psi	3500 psi	to be determined

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature: 	OIL CONSERVATION DIVISION Approved By:  Title: <u>Geologist</u> Approved Date: <u>3-16-2018</u> Expiration Date: <u>3-16-20</u> Conditions of Approval Attached <u>Approved C-108.</u>
Printed name: Brian Wood	
Title: Consultant	
E-mail Address: brian@permitswest.com	
Date: 3-12-18	Phone: 505 466-8120

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico

* fka New Mexico State BZ

* fka Chalk Bluff Draw Unit 2

Form C-102

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MAR 15 2018

Energy, Minerals & Natural Resources Department

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-00604	² Pool Code 98079	³ Pool Name SWD;WC-Cisco-Canyon-Strawn
⁴ Property Code 321016	⁵ Property Name Chalk Bluff State SWD*	
⁷ OGRID No. 371755	⁸ Operator Name Percussion Petroleum Operating, LLC	⁶ Well Number 1
		⁹ Elevation 3445' DF

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	32	17 S	27 E		1930	South	1880	West	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>1880'</p> <p>1930'</p>	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or pursuant to a pooling agreement or a compulsory pooling order hereinafter entered by the division.		
	Signature: Date: 3-12-18		
	Printed Name: Brian Wood		
	E-mail Address: brian@permitswest.com (5055) 466-8120		
¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.			
Date of Survey: 10-8-56			
Signature and Seal of Professional Surveyor:			
Original survey on file w/ NMOCD & attached			
Certificate Number			

NEW MEXICO
OIL CONSERVATION COMMISSION

Form C-128

Well Location and/or Gas Preparation Plat

Date Oct. 10, 1956

Operator Humble Oil & Refining Co

Lease Chalk Bluff Draw Unit

Well No. 2 Section 32 Township 17-South Range 27-East NMPM

Located 1930 Feet From South Line, 1880 Feet From West Line,

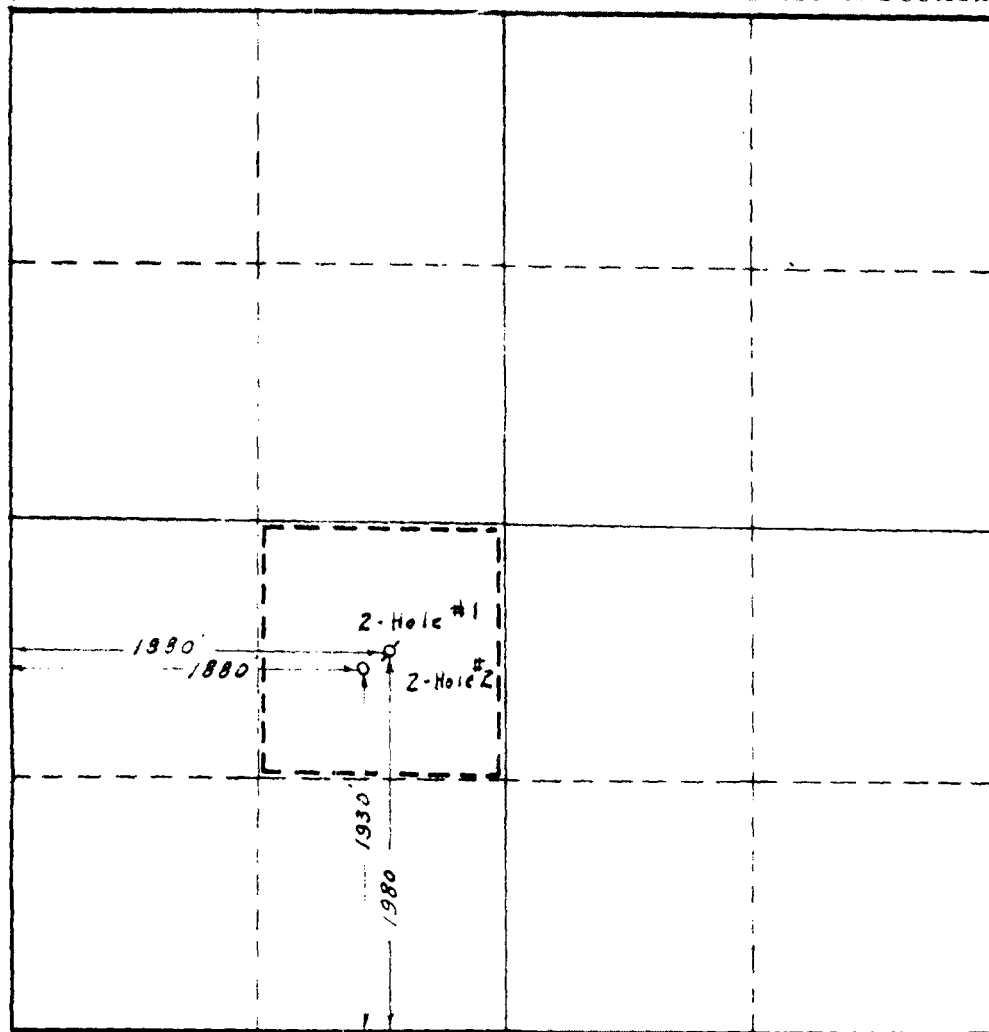
Eddy

County, New Mexico. G. L. Elevation

Name of Producing Formation Bend Sand
Pennsylvanian

Pool Chalk Bluff Draw Dedicated Acreage 40

(Note: All distances must be from outer boundaries of Section)



SCALE: 1" = 1000'

1. Is this Well a Dual Comp. ? Yes No
2. If the answer to Question 1 is yes, are there any other dually completed wells within the dedicated acreage? Yes No

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Name [Signature]
Position Asst. Division Superintendent
Representing Humble Oil & Ref. Company
Address Box 1600 Midland, Texas

Date Surveyed 10-8-56
[Signature]
Registered Professional Engineer and/or
Land Surveyor

HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS

11-9556 11 04 23

NEW MEXICO OIL CONSERVATION COMMISSION

BOX 1545

HOBBS, N. M.

Re: ELEVATION

~~TO THE NATIONAL OIL CONSERVATION COMMISSION~~
~~NEW MEXICO OIL CONSERVATION COMMISSION~~

Attn:

Gentlemen:

The ELEVATION of the following well is: 3445 DF as
reported by Laughlin-Simmons & Company.

COUNTY: Eddy, N. M. Field: Chalk Bluff Draw Area

Humble Oil & Refining Company

#2 Chalk Bluff Draw Area

Sec 32, T-17-S, R-27-E

12: 18

1950 FBL & FWL of Sec.

The above is given you to complete your records for the Form 1,
"Notice of Intention to Drill", filed with you on this well under date of:

11-2-56

HUMBLE OIL & REFINING COMPANY
JOHN L. LOFTIS, JR., DIV. GEOLOGIST.

By: W. J. Garrison

W. J. Garrison

WJG/1st

Orig: 1 cc: Texas RRC
cc: Mr. D. C. Fransen
Mr. J. W. House
Mr. H. L. Beckman
Dist. Supt.
File



WELL SCHEMATIC - PROPOSED Chalk Bluff State SWD No.1

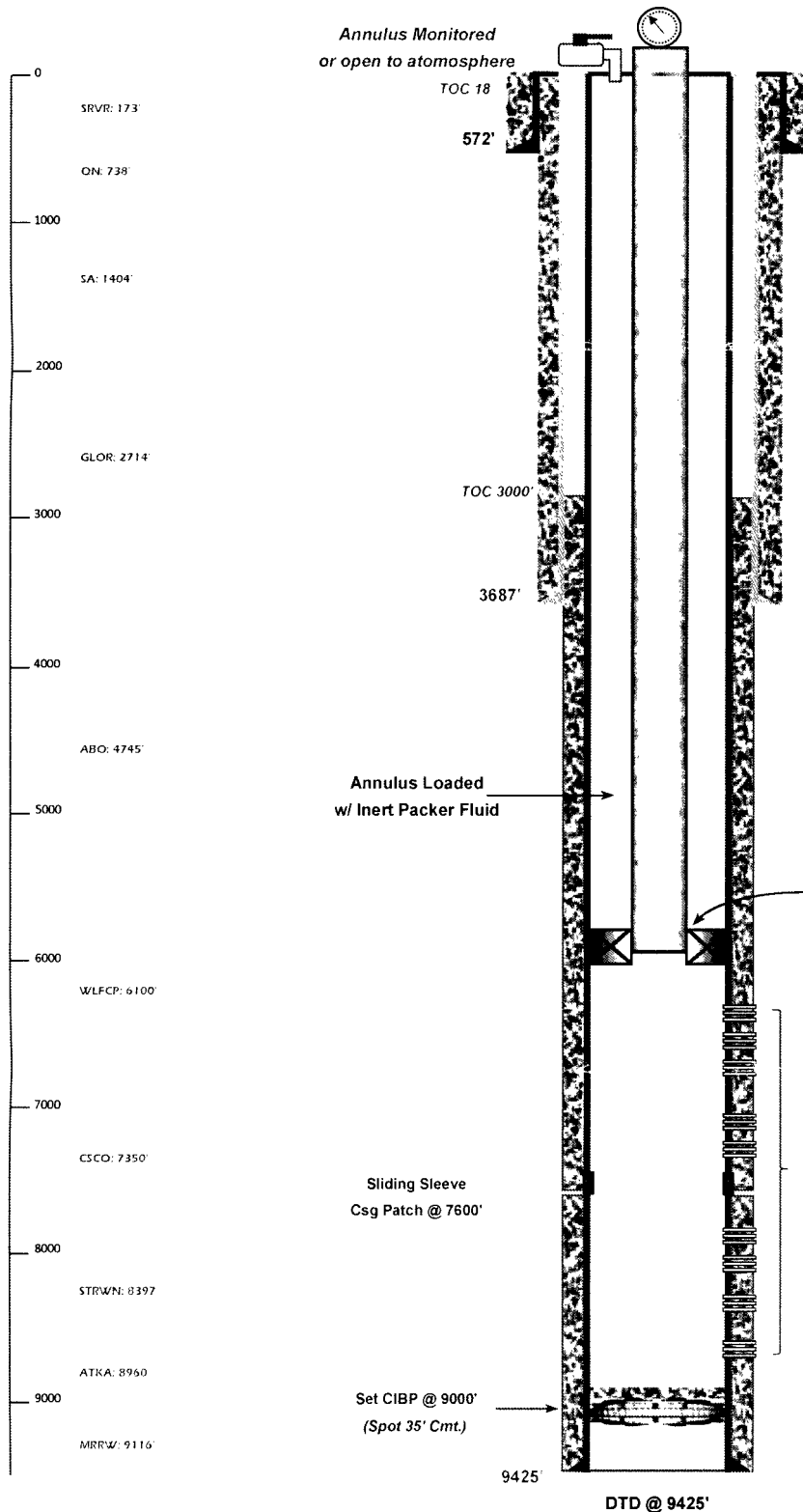
(Formerly New Mexico BZ State No.1)

API 30-015-00640

1930' FSL & 1880' FWL, SEC. 32-T17S-R27E
EDDY COUNTY, NEW MEXICO

SWD; WC-Cisco-Canyon-Strawn (98079)

Spud Date: 10/29/1956
Config SWD Dt (Est): ~6/01/2



Injection Pressure Regulated
and Volumes Reported
1220 psi Max. Surface (0.2 psi/ft)

Surface Casing

11.75", 42.0# Csg. (15.5" Hole) @ 572'
450 sx gel; 100 sx cmt - Circulated to Surface

Intermediate Casing

8.625", 32.0# J-55 Csg. (11.0" Hole) @ 3687'
1500 sx - Circulate to Surface

PERCUSSION PETROLEUM

Install a 5M BOP and drill out the 8-5/8" casing down to 3687' MD, then to 7600' open hole (top of 5-1/2" casing). Wash over top of existing 5-1/2" casing and MU high pressure pack-off overshot with a sliding sleeve (and possibly a DV tool above 6100'). Drill out CIBP at 7655'; clean out. Set CIBP at 9000' MD with 50' cement on top. Perforate the well from 6100'-8950'; acidize perfs. Run 2-7/8" IPC tubing and set the packer at 6050'; conduct MIT (witnessed) and commence injection.

NEW Production Casing

5.5", 17.0# (8.75" Hole) @ 7600'
1100 sx - TOC @ 3000' by Calc.

Specific Perf Intervals To Be Determined
Between Max Top 6100' and Max Bottom 8950'

ORIGINAL Production Casing

5.5", 17.0# (8.75" Hole) @ 9425'
380 sx - TOC @ 7610' by Freepoint

Drawn by Ben Stone 3/07/2018

