

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-31520
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name State SWD
8. Well No. #1 SWD
9. Pool name or Wildcat SWD W. Sawyer (San Andres)
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3992 Gr

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER ☐ SWD
2. Name of Operator Cobra Oil & Gas Corporation
3. Address of Operator PO Box 8206, Wichita Falls, Texas 76307
4. Well Location Unit Letter J : 1650 Feet From The South Line and 2150 Feet From The East Line Section 16 Township 9S Range 37E NMPM County
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3992 Gr

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☒
TEMPORARILY ABANDON ☐	COMMENCE DRILLING OPNS. ☐
PULL OR ALTER CASING ☐	CASING TEST AND CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2/23/98 Move in service rig. Drill cement plug from surface to 305'.
Drill 2nd plug from 1983 feet to 2196 feet. Drill cement plug from 4010'
to 4198'. Clean out open hole to 6540'. Well went on vacuum, tubing stuck.
Pull out of hole with work string. Run in hole with 2 7/8" salta lined
tubing and packer, set at 4124'. Shut down 3/3/98 to set up facility and
lay flow line.
3/20/98 Complete flowline and hookup of well, began disposal of produced
water from State 16 #1Y.
3/28/98 Acid well with 10,000 gal 15% HCl acid.
4/3/98 Run setup rate test with John West Engineering.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Rory Edwards TITLE Production Supervisor DATE 4-29-98
(940)
TYPE OR PRINT NAME Rory Edwards TELEPHONE NO. 716-5100

(This space for State Use)
ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

TO SA

dp

MAY 06 1998

COBRA OIL & GAS CORPORATION

P. O. Box 8206 Wichita Falls, Texas 76307-8206 (940) 716-5100

DAILY DRILLING REPORT

COBRA OIL & GAS CORPORATION, OPERATOR

Page 1

STATE #1 SWD

Reentry of IP Petro State #1

Lea County, New Mexico

Sec. 16, T9S-R37

- 02/20/98: Blade off loc, dig out around well head, inst 6 X 6 X 6 cellar, prep to caliche loc this am.
- 02/24/98: MIRU well serv unit, welder cut off dry hole marker, welded on 8^{5/8}" slip x thread collar, screwed on & welded 8^{5/8}" 32# J55 extension, welded on 11", 3000# x 8^{5/8}" slip on head, NU 11", 3000# BOP, RU rev unit, pmp & pit, unload 268 jts 2^{7/8}" 7.9# N80 work string & XO's, RU pwr swvl, secure well, SDFN.
- 02/25/98: PU 7^{7/8}" Varel bit & 4^{1/2}" DC, drill out hard cmt to 135', secure well, SDFN. DWC \$4200, CWC \$14,700.
- 02/26/98: Drld cmt @ 8'/hr to 270', secure well, SDFN, received 139 jts 2^{7/8}" Salta lined tbg. DWC \$3700, CWC \$18,400.
- 02/27/98: Drld cmt f/270'-305', fell out of top plug, circ clean, LD pwr swvl, PU tbg, tag 2nd plug @ 1983', drld out cmt f/1983'-2196', cmt stringers to 2246', circ clean, LD pwr swvl, PU tbg to 3890', secure well, SDFN. DWC \$5400, CWC \$23,800.
- 02/28/98: PU tbg, tag up & drill out soft cmt f/3944'-4010', DO hard cmt f/4010'-4198', circ clean, PU tbg, tag bridge @ 4400', DO to 4450', circ out oil & gas, DO bridge f/4470'-4478', PU tbg to 4570', circ out gas, pull 7 stds into 8^{5/8}" csg, secure well, SDFN. DWC \$5400, CWC \$23,800.
- 03/01/98: SITP TSTM, RIH w/bit, tag up @ 4980', PU pwr swvl, Drld out hole f/4980'-5350', drld on soft fill, bit trying to plug off, circ clean, TOOH to 4000', secure well, SDFN. DWC \$3,800, CWC \$29,200.
- 03/02/98: SD on Sunday.
- 03/03/98: SITP TSTM, RIH w/bit, tag up @ 5350', PU pwr swvl, drill out hole f/5350'-5620', drld soft fill, drld out cmt f/5620'-5640', csg went on vac, PU tbg, TIH to 6540', tag up, pmp 150 bbls brine wtr, unable to break circ, work stuck tbg for 30 mins, TOOH into csg, pmp 220 bbls brine wtr & loaded hole, pmpd 870 bbls produced wtr, 2 BPM @ 1000 psi, 1240 bbls tot fl pmpd after drilled out plug @ 5640', ISIP 1000 psi, 30 mins SIP 900 psi, bled back press, flowed back ±40 bbls, well dead. DWC \$5600, CWC \$35,700.
- 03/04/98: SD pmp @ 7:00 AM, ISIP 1000 psi, 30 min test lost 100 psi, bled 40 bbls back, down to 0 psi in 30 mins, well running over, ND swvl, pull & LD 2500' tbg, RIH w/scraper & tbg to 4100', pmpd 50 bbls down csg, ND swvl, pulled & LD 4100' tbg & 6 DC, NU to run prod string, PU 1.87" X-nipple, 1 jt 2^{7/8}" Salta tbg, 8^{5/8}" nickle coated pkr w/1.875" nipple & on-off tool, RIH w/131 jts Salta tbg, pkr @ 4093', end of SN nipple @ 4124', set pkr, tested csg to 1000 psi, OK, get off pkr, circ w/pkr fl, ND BOP, latched onto pkr, pull 20# tension, flanged up WH, ran 30 min test on csg, 30 min test OK, capped well off, SDFN.
- 03/05/98: Permian Tank set 400 bbl FG gun bbl tank.
- 03/06/98: thru
- 03/09/98: SI, E.D. Walton Const prep to lay disp line & connect gun bbl beginning Monday, 3/9/98.
- 03/10/98: SI, E.D. Walton Const started HU of gun bbl tank, no pump delivery for rest of HU.

COBRA OIL & GAS CORPORATION

P. O. Box 8206 Wichita Falls, Texas 76307-8206 (940) 716-5100

DAILY DRILLING REPORT

COBRA OIL & GAS CORPORATION, OPERATOR

Page 2

STATE #1 SWD

Reentry of IP Petro State #1

Lea County, New Mexico

Sec. 16, T9S-R37

- 03/13/98: Ditched and layed 2", FG, 2500# WP SWD line from battery to disposal well.
- 03/14/98: Finished installation of 2" FG SWD line, tested to 2000 psi, held OK, HU WH, backfilled-ditch, SD, WO triplex pmp.
- 03/17/98: SWD, pmp scheduled for delivery on Wednesday, 3/18/98.
- 03/19/98: Set & started HU of J100 Oilmaster triplex pmp w/50 HP elect mtr for SWD, Lea Co. Elect. Coop changed out elect tfmrs, installed 3-37.5 KVA tfmrs.
- 03/20/98: Continue HU of SWD triplex pmp & elect service.
- 03/21/98: Finished HU of SWD triplex pmp & gun bbl, started disposing lease wtr 3/20/98 @ Inj Press 1180 psi, 1350 BPD inj rate.
- 03/29/98: TP 900 psi, flow back well into vac trk, chg out valve on WH, inst 8000 psi valve, RU Petroplex Acidizing, Inc., test lines to 7300 psi, acidized well w/10,000 gals 15% HCL acid, pmpd acid @ 10 BPM, TP 3800 psi w/150 bbl acid in open hole, rate 10.3 BPM, TP 4000 psi, started flush (238 BA pmpd), 10.4 BPM, TP 4100 psi, ISIP 1600 psi, 5 mins 1500 psi, 10 mins 1400 psi, 15 mins 1400 psi, flushed w/24 bbls lease wtr, John West Engineering conducted step rate test, tot wtr pmpd during test 476 bbls lease wtr, ISIP @ end of test 1550 psi.

	TIME	TP	RATE BPD	TOTAL	BPM
	9:25 AM	1292 psi		0.0	
	9:30 AM	1300 psi	1,209.6	4.2	
	9:35 AM	1300 psi	1,267.2	8.6	
1	9:40 AM	1300 psi	1,238.4	12.9	
			<u>1,238.4</u>		<u>.80</u>
	9:45 AM	1300 psi	1,641.6	18.6	
	9:50 AM	1300 psi	1,526.4	23.9	
2	9:55 AM	1300 psi	1,612.8	29.5	
			<u>1,593.6</u>		<u>1.10</u>
	10:00 AM	1375 psi	2,361.2	37.7	
	10:05 AM	1400 psi	2,390.4	46.0	
3	10:10 AM	1400 psi	2,419.2	54.4	
			<u>2,390.4</u>		<u>1.60</u>
	10:15 AM	1425 psi	2,995.2	64.8	
	10:20 AM	1450 psi	3,225.6	76.0	
4	10:25 AM	1450 psi	3,225.6	87.2	
			<u>3,148.8</u>		<u>2.18</u>
	10:30 AM	1575 psi	4,694.4	103.5	
	10:35 AM	1600 psi	4,723.2	119.9	
5	10:40 AM	1600 psi	4,665.6	136.1	
			<u>4,694.4</u>		<u>3.26</u>
	10:45 AM	1700 psi	6,076.8	157.2	
	10:50 AM	1720 psi	5,990.4	178.0	
6	10:55 AM	1775 psi	6,019.2	198.9	
			<u>6,028.8</u>		<u>4.18</u>

COBRA OIL & GAS CORPORATION

P. O. Box 8206 Wichita Falls, Texas 76307-8206 (940) 716-5100

DAILY DRILLING REPORT

COBRA OIL & GAS CORPORATION, OPERATOR

Page 3

STATE #1 SWD

Reentry of IP Petro State #1

Lea County, New Mexico

Sec. 16, T9S-R37

03/28/98: Acid chart continues.
(cont'd.)

	TIME	TP	RATE BPD	TOTAL	BPM
	11:00 AM	1865 psi	7,516.8	225.0	
	11:05 AM	1880 psi	7,776.0	252.0	
7	11:10 AM	1890 psi	7,430.4	277.8	
			<u>7,574.4</u>		5.26
	11:15 AM	2040 psi	8,870.4	308.6	
	11:20 AM	2050 psi	8,841.6	339.3	
8	11:25 AM	2050 psi	8,784.0	369.8	
			<u>8,832.0</u>		6.13
	11:30 AM	2250 psi	10,252.0	405.4	
	11:35 AM	2250 psi	10,483.2	441.8	
9	11:40 AM	2260 psi	10,051.2	476.7	
			<u>10,267.4</u>		7.12

04/02/98: TP 130 psi, flowed back to 0 psi, changed out valve on WH, left well SI, WO step rate test on 4/3/98.

04/03/98: SI, WO step rate test to be performed today.

04/04/98: RU Reef Chem pmp trk & John West Engineering WL trk for Step Rate Test, SITP 0 psi, TIH w/press recorder to 6000', FL @ 100', start test, pmpd tot 343.2 bbls lease wtr, ISIP 1335 psi, BH ISIP 3998.4 psi, TIH w/WL press recorder, tag btm @ 6943', start triplex pmp @ 2:00 PM, 4/3/98, disp of wtr @ rate of 1343 BFPD, disc press 1150 psi, TP 1100 psi.

Note: John West Engrs. notified NM Oil & Gas Comm. of intent to run Step Rate Test.

REMARKS	TIME	TP psi	RATE BPD	TOTAL	BHP
	10:10 AM	0.00		0.00	2632.00
	10:15 AM	264.10	892.80	3.10	2886.20
	10:20 AM	394.80	979.20	6.50	3025.80
1	10:25 AM	473.50	979.20	9.90	3111.90
			<u>950.40</u>		
	10:30 AM	632.10	1468.80	15.00	3252.00
	10:35 AM	690.50	1526.40	20.30	3332.20
2	10:40 AM	759.00	1468.80	25.40	3389.60
			<u>1488.00</u>		
	10:45 AM	888.40	2188.80	33.00	3487.70
	10:50 AM	931.50	2131.20	40.40	3542.80
3	10:55 AM	984.80	2102.40	47.70	3580.00
			<u>2140.80</u>		
	11:00 AM	1119.20	2880.00	57.70	3654.90
	11:05 AM	1176.20	2937.60	67.90	3704.20
4	11:10 AM	1204.00	2937.60	78.10	3750.00
			<u>2918.40</u>		
	11:15 AM	1334.50	3830.40	91.40	3782.60
	11:20 AM	1361.00	3542.40	103.70	3813.70
5	11:25 AM	1392.60	3657.60	116.40	3833.70
			<u>3676.80</u>		
	11:30 AM	1513.00	4377.60	131.60	3865.70
	11:35 AM	1528.20	4348.80	146.70	3883.30
6	11:40 AM	1539.60	4320.00	161.70	3896.90
			<u>4348.80</u>		

COBRA OIL & GAS CORPORATION

P. O. Box 8206 Wichita Falls, Texas 76307-8206 (940) 716-5100

DAILY DRILLING REPORT

COBRA OIL & GAS CORPORATION, OPERATOR

Page 4

STATE #1 SWD

Reentry of IP Petro State #1

Lea County, New Mexico

Sec. 16, T9S-R37

04/04/98: Step Rate Test continue.

(cont'd.)

REMARKS	TIME	TP psi	RATE BPD	TOTAL	BHP
	11:45 AM	1654.90	5040.00	179.20	3917.60
	11:50 AM	1668.80	5040.00	196.70	3932.00
7	11:55 AM	1680.20	5040.00	214.20	3943.20
			<u>5040.00</u>		
	12:00 N	1819.60	5817.60	234.40	3964.00
	12:05 PM	1832.30	5846.40	254.70	3976.00
8	12:10 PM	1951.40	5846.40	275.00	3988.80
			<u>5836.80</u>		
	12:15 PM	1970.40	6595.20	297.90	4001.60
	12:20 PM	1981.80	6508.80	320.50	4011.20
9	12:25 PM	1991.90	6537.60	343.20	4017.00
			<u>6547.20</u>		
Falloff	12:26 PM	1335.10			3998.40
	12:27 PM	1345.20			3986.40
	12:28 PM	1333.80			3976.00
	12:29 PM	1324.90			3967.20
	12:30 PM	1317.30			3959.00
	12:35 PM	1285.60			3926.40
	12:40 PM	1260.20			3900.90



P.O. BOX 8206
WICHITA FALLS,
TEXAS 76307-8206
TELEPHONE (940) 716-5100
PRODUCTION FAX (940) 716-5110
WELL LOG FAX (940) 716-5180
LAND FAX (940) 716-5210
ACCOUNTING FAX (940) 716-5150
EXPLORATION FAX (940) 716-5170

April 14, 1998

Mr. David Catanach
New Mexico Oil Conservation Division
2040 Pacheco Street
Santa Fe, New Mexico 87505

Re: Step Rate Injection Test
State #1 SWD - Order SWD-691
Section 16, T9S-R37E
Lea County, New Mexico

Dear Mr. Catanach:

Enclosed is a Step Rate Test run on the captioned well on April 3, 1998. Cobra Oil & Gas Corporation respectfully requests an increase in injection pressure based on this test.

Thank you for your attention to this request. Should you require additional information, please advise.

Sincerely yours,

A handwritten signature in cursive script that reads "Rory Edwards".

Rory Edwards
Production Supervisor

RRE:jt
Enclosure
LTR437

xc: District Office, Hobbs, New Mexico

WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: COBRA OIL & GAS CORPORATION

DATE: APRIL 3, 1998

WELL NAME: STATE NO. 1 SWD
LEA COUNTY, NEW MEXICO

WO#: 98-14-0518

PERFS -

PACKER DEPTH -

BHP GAUGE DEPTH - 4200

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/54.2657	(7) MEASURED BHP (psi)
1	10:10							2632.0
	10:15	264.1	3.1	892.8	11.007	253.1	26.04	2886.2
	10:20	394.8	6.5	979.2	13.058	381.7	28.56	3025.8
	10:25	473.5	9.9	979.2	13.058	460.4	28.56	3111.9
				950.4				
2	10:30	632.1	15.0	1468.8	27.646	604.5	42.84	3252.0
	10:35	690.5	20.3	1526.4	29.685	660.8	44.52	3332.2
	10:40	759.0	25.4	1468.8	27.646	731.4	42.84	3389.6
				1488.0				
	10:45	888.4	33.0	2188.8	57.828	830.6	63.84	3487.7
3	10:50	931.5	40.4	2131.2	55.044	876.5	62.16	3542.8
	10:55	984.8	47.7	2102.4	53.676	931.1	61.32	3580.0
				2140.8				
	11:00	1119.2	57.7	2880.0	96.080	1023.1	84.00	3654.9
	11:05	1176.2	67.9	2937.6	99.665	1076.5	85.68	3704.2
4	11:10	1204.0	78.1	2937.6	99.665	1104.3	85.68	3750.0
				2918.4				
	11:15	1334.5	91.4	3830.4	162.838	1171.7	111.72	3782.6
	11:20	1361.0	103.7	3542.4	140.915	1220.1	103.32	3813.7
	11:25	1392.6	116.4	3657.6	149.509	1243.1	106.68	3833.7
5				3676.8				
	11:30	1513.0	131.6	4377.6	208.469	1304.5	127.68	3865.7
	11:35	1528.2	146.7	4348.8	205.939	1322.3	126.84	3883.3
	11:40	1539.6	161.7	4320.0	203.423	1336.2	126.00	3896.9
				4348.8				
6	11:45	1654.9	179.2	5040.0	270.553	1384.3	147.00	3917.6
	11:50	1668.8	196.7	5040.0	270.553	1398.2	147.00	3932.0
	11:55	1680.2	214.2	5040.0	270.553	1409.6	147.00	3943.2
				5040.0				
				5040.0				

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1) - (4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
8	12:00	1819.6	234.4	5817.6	352.802	1466.8	169.68	3964.0
	12:05	1832.3	254.7	5846.4	356.040	1476.3	170.52	3976.0
	12:10	1951.4	275.0	5846.4	356.040	1595.4	170.52	3988.8
9				5836.8				
	12:15	1970.4	297.9	6595.2	444.966	1525.4	192.36	4001.6
	12:20	1981.8	320.5	6508.8	434.242	1547.6	189.84	4011.2
FALLOFF	12:25	1991.9	343.2	6537.6	437.804	1554.1	190.68	4017.0
				6547.2				
	12:26	1335.1				1335.1		3998.4
	12:27	1345.2				1345.2		3986.4
	12:28	1333.8				1333.8		3976.0
	12:29	1324.9				1324.9		3967.2
	12:30	1317.3				1317.3		3959.0
	12:35	1285.6				1285.6		3926.4
	12:40	1260.2				1260.2		3900.9

STEP RATE INJECTION TEST

COBRA OIL & GAS CORPORATION

Well Name:
State No. 1 SWD
Lea County, New Mexico

