

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIA DISTRICT
Artesia
NOV 19 2015

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM29234
2. Name of Operator CHEVRON USA INCORPORATED		6. If Indian, Allottee or Tribe Name
Contact: CINDY H MURILLO E-Mail: CHERRERAMURILLO@CHEVRON.COM		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 15 SMITH ROAD MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 575-263-0431 Fx: 575-263-0445	8. Well Name and No. LOTOS C FEDERAL 905
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 9 T24S R31E SESE 660FSL 700FEL		9. API Well No. 30-015-32558-00-S1
		10. Field and Pool, or Exploratory SAND DUNES
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☒ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

CHEVRON USA INC. INS REQUESTING TO ACIDIZE THE ABOVE WELL. THIS WELL HAS A HISTORY OF PARAFFIN PROBLEMS AND ACIDIZING THE WELL, WE COULD REASONABLE EXPECT TO GET PRODUCTION BACK ON THIS WELL. THE PROCEDURE IS AS FOLLOWS:

1. RIG UP PULLING UNIT, POOH WITH RODS AND PUMP.
2. TOH WITH TUBING.
3. TIH WITH 4 3/4" BIT ON 2 7/8" WORKSTRING AND CLEANOUT TO 8244' (PBTD).TOH.
4. TIH WITH 5 1/2' TREATING PACKER ON 2 7/8" WORKSTRING AND SET AT 8000'
5. ACIDIZE PERFS 8050-8192 W/3000 GALLONS 15% NEFE HCI PUMP ACID IN 2 STAGES UNSING ROCK SALT FOR DIVERSION. SHUT IN ONE HOUR AND FLOW BACK LOAD.
6. TOH WITH WORKSTRING
7. TIH WITH TUBING, PUMP AND RODS
8. RIG DOWN PULLING UNIT.

11/20/15
Accepted for record
NMOCD

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #287590 verified by the BLM Well Information System For CHEVRON USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by MARISSA KLEIN on 06/24/2015 (15MGK0162SE)	
Name (Printed/Typed)	CINDY H MURILLO	Title	PERMITTING SPECIALIST
Signature	(Electronic Submission)	Date	01/12/2015
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved By		Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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 conduct operations thereon.		Office	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.			

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

LOTOS C Fed No. 905

Created: 01/07/15 By: PTB
 Updated: By:
 Lease: LOTOS C Federal
 Field: Sand Dunes (Delaware)
 Surf. Loc.: 660' FSL & 700' FEL
 Bot. Loc.:
 County: Eddy St.: NM
 Status: Oil Well

Well #: 905 St. Lse:
 API 30-015-32558
 Unit Ltr.: P Section: 9
 TSHR/Rng: 24S / 31E
 Unit Ltr.: Section:
 Lease SN NM-29234
 Directions:
 CHEVNO: HJ8866
 OGRID: 4323

Surface Casing

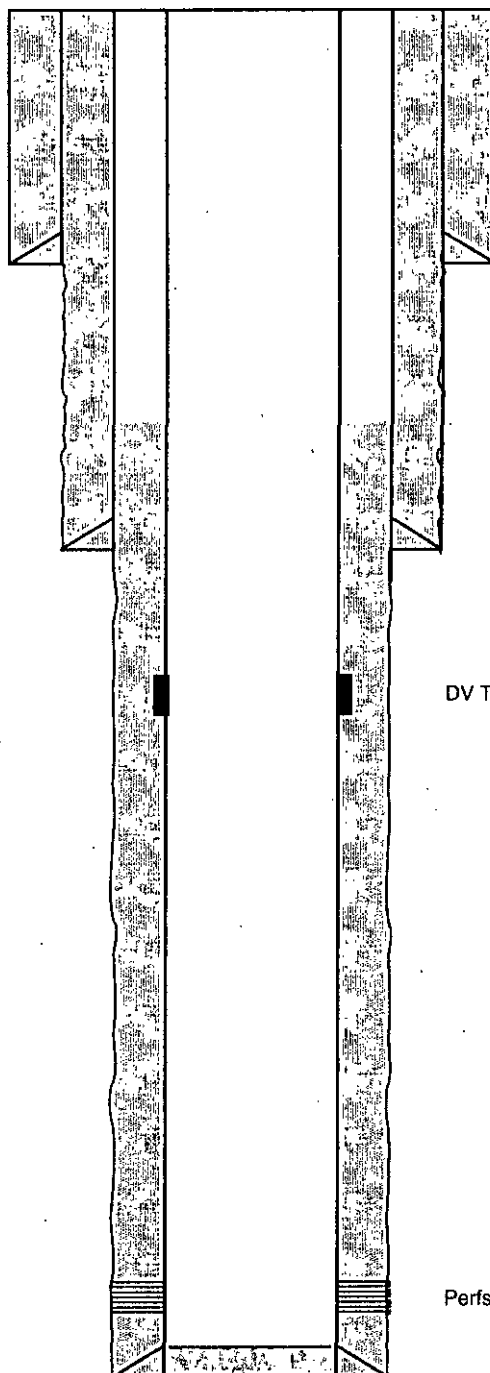
Size: 13-3/8"
 Wt., Grd.: 48#, H-40
 Depth: 780'
 Cmt: 611 sx
 Circulate: yes; 114 sx
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Casing

Size: 8-5/8"
 Wt., Grd.: 32#, J-55
 Depth: 4,390'
 Cmt: 1,300 sx
 Circulate: yes; 63 sx
 TOC: Surface
 Hole Size: 11"

Production Casing

Size: 5-1/2"
 Wt., Grd.: 17#
 Depth: 8,335'
 Cmt: 1,280 sx
 Circulate: No
 TOC: 2139', TS
 Hole Size: 7-7/8"



KB:
 DF:
 GL: 3475'
 Ini. Spud: 02/24/03
 Ini. Comp.: 04/09/03

DV Tool @ 5,991'

Perfs: 8050'-8192'

PBTD: 8,244'

Tubing String

Tubing Strings									
Tubing Description		Planned Run?		Set Depth (ROTH)		Set Depth (FVJ) (ROTH)			
Tubing		N		5,077.1		4,971.8			
Run Date		Run Job		Run Date		Run Job			
10/23/2012		Complete, 8/27/2012 09:32							
QTY	Item Description	OD (in)	ID (in)	WT (lbs)	Grade	Top Thread	Lin (ft)	Top (ROTH)	Bot (ROTH)
1	Tubing Hanger	4.6	2.441				0.50	0.1	0.6
1	Landing Nipple	2 7/8	2.220				0.64	0.6	1.3
1	Tubing L-80 fiberline tubing	2 7/8	2.441	6.40	L-80		4.21	1.3	5.5
147	Tubing L-80 fiberline tubing	2 7/8	2.441	6.40	L-80		4,766.30	5.5	4,771.8
1	On-Off Tool	2 7/8	1.875				1.90	4,771.8	4,773.7
1	Packer hydraulic set packer	4.6	2.375				6.10	4,773.7	4,779.8
1	Cross Over	2 7/8	2.200				0.74	4,779.8	4,780.5
5	Tubing ryl wrap I-80	2 7/8	2.441	6.40	L-80		161.50	4,780.5	4,942.0
1	On-Off Tool	2 7/8	1.875				4.15	4,942.0	4,946.2
1	Valve	2 7/8	1.812				2.10	4,946.2	4,948.3
1	Packer hydraulic set packer	4.6	2.375				5.35	4,948.3	4,953.6
1	Cross Over	2 7/8	2.200				0.74	4,953.6	4,954.4
3	Tubing ryl wrap I-80	2 7/8	2.441	6.40	L-80		96.99	4,954.4	5,051.4
1	Tubing ryl wrap I-80	2 7/8	2.441	6.40	L-80		8.15	5,051.4	5,059.5
1	Tubing ryl wrap I-80	2 7/8	2.441	6.40	L-80		4.20	5,059.5	5,063.7
1	Valve	2 7/8	1.620				2.10	5,063.7	5,065.8
1	Cross Over	2 7/8	2.200				0.74	5,065.8	5,066.6
1	Tubing ryl wrap I-80	2 7/8	2.441	6.40	L-80		10.20	5,066.6	5,076.8
1	Bull Plug	2 7/8					0.35	5,076.8	5,077.1

Surface casing cement

Pump 20 bbl fresh water spacer, 398 bbl (1300 sx) 13.6 ppg cement, drop plug & displace with 10 bbl of 10 ppg brine water.

After pumping 10 bbl brine, encountered sudden pressure spike from 285 psi to 2085 psi, shut down and bled off pressure. Pumped 2000 psi, held and maintained for 15 minutes, bled off and repeated process. No pressure loss.

Top Job:
Pump 12 bbl fresh water spacer to establish circulation, 40 bbl (170 sx) 14.8 ppg cement at 1 bpm, Cement to surface after 30 bbl, FCP-250 psi.

FRAC & ACID

LOAD GUNS, PICK UP LUBRICATOR. 1ST RUN PERFS: 4966 - 86'
2ND: 5012' - 46'
3RD: 4889' - 4919'
4TH: 4859' - 89'
5TH: 4829 - 59'
6TH: 4802' - 4829'
RAN 3-3/8" PREDATOR GUNS W/ 2 SP gram, 0.41" EHD, 47.56

RD WIRELINE. NU ACID VALVE.

WELL SHUT IN AND SHUT DOWN.

To Date (Cost)	Cum. Problem Tot
116,657	

MI SPOT ACID EQUIPMENT.

JSA MEETING W/ ACID CREW.

RU PUMPING LINES, MIX ACID.

PRESSURE TEST LINES TO 5000 PSI. 88LS UNTIL PRESSURE ROSE (2208 F GALLONS 15% HCL), PUMP 48 BBLs, 1.18 S.G.), AFTER THAT DROPPED 20 140 BALLS ON FORMATION. NO BALL INCREASED TO 40 BALLS EVERY 16 B NOTICED, BUT IT WAS ONLY ABOUT EVERY 16 BBLs OF ACID, STILL HAD 1 PSI. FLUSHED W/ FW TO BTM PERFS 2346, AVG PSI @ 2721, AVG RATE 9.3 BBLs (480 BBLs OF ACID & 152 BBLs (5 MIN: 964 PSI, 10 MIN: 596 PSI, 15 MIN:

Intermediate casing cement

Cement:
Test lines to 3,000 psi. Pump 35 bbl spacer w/ green dye. Pump 20 bbl chemical wash. Mix & pump 105 bbl (300 sx, 1.97 yld, 12.8 ppg) lead cement. Mix & pump 121 bbl (450 sx, 1.51 yld, 14.2 ppg) tail cement. Drop plug. Displace with 192 bbl BW. Bump plug w/ 1140 psi (500 psi over). CIP = 22:40.

Packer:
Increase pressure to 1500 psi and hold. Gradually increase pressure, @ 1965 psi bag started inflating, shut pumps off, and hold at 1600 psi. Pump to 2500 psi (500 psi over), hold pressure, 0.5 bbl to inflate packer. Decrease pressure, check float - held, 1.5 bbl back. Full returns throughout, 47 bbl cm to surface. R/D cement.

Production casing cement

Cement:
Test lines to 5,000 psi. Pump 15 bbl spacer. Pump 50 bbl mudpush. Mix & pump 181 bbl (800 sx, 1.28 yld, 13.5 ppg) lead cement. Mix & pump 60 bbl (300 sx, 1.12 yld, 16.00 ppg) tail cement. Drop plug.

710, 16.0 ppg) tail cement. mix a pump 60 bbl (500
sx, 1.12 yld, 16 ppg) tail cement. Drop plug.
Displace with 3 bbl fresh water, 7 bbl acetic acid,
then 107.5 bbl fresh water. Bump plug w/ 2120 psi
(500 psi over). CIP = 05:00.

Packer:
Increase pressure to 3000 psi and hold. Gradually
increase pressure, @ 3300 psi bag started inflating,
shut pumps off, and hold at 3175 psi. Pump to 3800
psi (500 psi over), hold pressure, 0.75 bbl to inflate
packer. Pump to 4246 psi. Decrease pressure,
check float - held, 2 bbl back. Full returns
throughout, 17 bbl cmt to surface. R/D cement.

RIH W/ PERF GUNS, CCL-GR,

SPF @ 120 DEGREE PHASING, PERF. CHARGE: 35

Time Hours (hr)	0.00	Days From Spud (days)
Com		

SI. START WITH A FW BREAK DOWN, PUMPED 30
8 PSI & 2.8 BPM). SWITCH OVER TO ACID (20000
S, THEN DROPPED FIRST SET OF BALL (20 - 7/8"
20 BALLS EVERY 16 BBLs, UNTIL WE GOT UP TO
LL ACTION WAS SEEN, SO BALLS DROPPED WAS
3 BBLs OF ACID. SOME BALL ACTION WAS
IT 50 - 60 PSI INCREASE. INCREASE TO 60 BALLS
D NO REAL BALL ACTION, ONLY ABOUT 80 - 100
PS @ 5047 (117 BBLs). MAX PSI @ 3096, MIN PSI @
13, MAX RATE: 9.5. TOTAL LOAD PUMPED 630.4
S OF FW), TOTAL BALLS DROPPED: 516. ISIP: 1951,
AIN: 393 PSI.

MD	INC	AZI	TVD	VSEC	NS	EW	DL/100'	BLD/100'	TURN
0	0	0	0	0	0	0	0	0	0
101.67	0.3	78.25	101.67	-0.02	0.05	0.26	0.3	0.3	0
193.21	0.31	27.69	193.21	-0.23	0.32	0.61	0.28	0.01	-55.23
284.75	0.33	13.49	284.75	-0.68	0.8	0.79	0.09	0.02	-15.51
376.29	0.3	23.04	376.29	-1.13	1.27	0.94	0.07	-0.03	10.43
467.83	0.33	128.81	467.82	-1.14	1.33	1.24	0.55	0.03	115.55
559.37	0.55	153.07	559.36	-0.53	0.77	1.65	0.31	0.24	26.5
650.91	0.66	207.25	650.9	0.32	-0.09	1.6	0.61	0.12	59.19
742.45	0.83	217.97	742.43	1.2	-1.08	0.95	0.24	0.19	11.71
833.99	0.67	219.54	833.96	2.02	-2.01	0.21	0.18	-0.17	1.72
925.53	0.59	246.68	925.5	2.5	-2.61	-0.57	0.33	-0.09	29.65
1015.8	0.56	221.03	1015.76	2.91	-3.13	-1.28	0.28	-0.03	-28.41
1106.07	0.98	173.91	1106.02	3.97	-4.23	-1.49	0.8	0.47	-52.2
1196.34	0.88	166.58	1196.28	5.43	-5.67	-1.25	0.17	-0.11	-8.12
1286.61	0.51	171.56	1286.55	6.53	-6.74	-1.03	0.41	-0.41	5.52
1376.88	0.24	214.8	1376.81	7.07	-7.3	-1.08	0.41	-0.3	47.9
1467.15	0.33	243.05	1467.08	7.29	-7.57	-1.42	0.18	0.1	31.3
1557.42	0.5	238.28	1557.35	7.53	-7.89	-1.98	0.19	0.19	-5.28
1647.69	0.77	225.48	1647.62	8.04	-8.53	-2.75	0.34	0.3	-14.18
1737.96	0.99	226.68	1737.87	8.85	-9.49	-3.75	0.24	0.24	1.33
1826.85	0.92	217.35	1826.75	9.79	-10.58	-4.74	0.19	-0.08	-10.5
1917.19	1.08	217.41	1917.08	10.89	-11.83	-5.7	0.18	0.18	0.07
2007.53	1.28	216.05	2007.4	12.21	-13.33	-6.81	0.22	0.22	-1.51
2097.87	1.47	215.02	2097.71	13.77	-15.09	-8.07	0.21	0.21	-1.14
2188.21	1.57	216.64	2188.02	15.49	-17.03	-9.47	0.12	0.11	1.79
2278.55	1.55	216.22	2278.33	17.24	-19.01	-10.93	0.03	-0.02	-0.46
2368.89	1.77	210.31	2368.63	19.2	-21.2	-12.36	0.31	0.24	-6.54
2459.23	2.03	212.92	2458.92	21.5	-23.75	-13.93	0.3	0.29	2.89
2549.57	1.9	217.02	2549.21	23.75	-26.29	-15.71	0.21	-0.14	4.54
2639.91	1.97	217.25	2639.5	25.9	-28.72	-17.55	0.08	0.08	0.25
2730.25	1.65	222.91	2729.79	27.8	-30.91	-19.37	0.41	-0.35	6.27
2820.59	1.35	228.97	2820.1	29.19	-32.56	-21.06	0.38	-0.33	6.71
2910.93	1.35	238.31	2910.41	30.19	-33.82	-22.77	0.24	0	10.34
3001.27	1.03	254.03	3000.74	30.72	-34.6	-24.46	0.5	-0.35	17.4
3091.61	0.73	269.94	3091.06	30.75	-34.82	-25.81	0.43	-0.33	17.61
3181.83	0.54	310.38	3181.28	30.35	-34.55	-26.71	0.53	-0.21	44.82
3261	0.81	337.06	3260.44	29.52	-33.79	-27.21	0.51	0.34	33.7
3306	0.53	334.96	3305.44	29.02	-33.31	-27.42	0.62	-0.62	-4.67
3351	0.32	192.72	3350.44	28.94	-33.24	-27.54	1.79	-0.47	-316.09
3397	1.36	175.21	3396.43	29.6	-33.91	-27.52	2.3	2.26	-38.07
3442	2.3	169.81	3441.41	31.04	-35.34	-27.32	2.12	2.09	-12
3487	2.92	169.93	3486.36	33.08	-37.35	-26.96	1.38	1.38	0.27
3532	3.49	168.36	3531.29	35.6	-39.82	-26.48	1.28	1.27	-3.49
3577	4.04	167.45	3576.2	38.54	-42.71	-25.86	1.23	1.22	-2.02
3622	4.92	167.07	3621.06	42.05	-46.14	-25.09	1.96	1.96	-0.84
3668	6	167.72	3666.85	46.41	-50.41	-24.13	2.35	2.35	1.41
3713	7.44	171.49	3711.54	51.67	-55.59	-23.2	3.35	3.2	8.38
3758	9.37	175.74	3756.05	58.24	-62.13	-22.5	4.5	4.29	9.44
3803	11.07	175.79	3800.34	66.21	-70.09	-21.91	3.78	3.78	0.11
3848	12.71	174.65	3844.37	75.46	-79.33	-21.13	3.68	3.64	-2.53
3893	13.99	173.73	3888.15	85.84	-89.66	-20.07	2.88	2.84	-2.04
3938	15.13	172.3	3931.71	97.15	-100.89	-18.69	2.66	2.53	-3.18
3983	16.26	169.33	3975.03	109.32	-112.9	-16.74	3.08	2.51	-6.6
4028	17.02	165.93	4018.15	122.16	-125.48	-13.97	2.74	1.69	-7.56

4074	18.09	165.81	4062	135.97	-138.94	-10.58	2.33	2.33	-0.26
4119	18.29	165.46	4104.76	149.93	-152.54	-7.1	0.51	0.44	-0.78
4164	18.45	165.71	4147.46	164.03	-166.28	-3.57	0.4	0.36	0.56
4209	19.87	166.91	4189.97	178.74	-180.63	-0.08	3.27	3.16	2.67
4254	20.94	167.64	4232.14	194.38	-195.93	3.37	2.44	2.38	1.62
4299	22.02	169.05	4274.02	210.83	-212.07	6.7	2.66	2.4	3.13
4344	22.72	169.6	4315.63	227.94	-228.9	9.87	1.62	1.56	1.22
4389	23.82	169.86	4356.97	245.71	-246.39	13.04	2.46	2.44	0.58
4434	25.01	169.46	4397.95	264.29	-264.69	16.38	2.67	2.64	-0.89
4480	26.22	169.57	4439.42	284.16	-284.25	20	2.63	2.63	0.24
4525	27.19	169.68	4479.62	304.37	-304.14	23.64	2.16	2.16	0.24
4561	27.66	169.65	4511.58	320.94	-320.45	26.61	1.31	1.31	-0.08
4606	27.36	169.76	4551.49	341.72	-340.9	30.33	0.68	-0.67	0.24
4651	27.09	169.24	4591.5	362.29	-361.14	34.08	0.8	-0.6	-1.16
4696	27.2	169.18	4631.55	382.8	-381.31	37.92	0.25	0.24	-0.13
4741	27.16	169.12	4671.58	403.33	-401.5	41.79	0.11	-0.09	-0.13
4787	26.81	168.73	4712.57	424.18	-421.98	45.8	0.85	-0.76	-0.85
4832	26.71	168.88	4752.75	444.42	-441.86	49.73	0.27	-0.22	0.33
4877	26.62	168.84	4792.97	464.59	-461.67	53.64	0.2	-0.2	-0.09
4922	26.63	168.89	4833.19	484.73	-481.46	57.53	0.05	0.02	0.11
4967	26.5	168.93	4873.44	504.83	-501.21	61.4	0.29	-0.29	0.09
5012	26.54	168.66	4913.71	524.89	-520.92	65.31	0.28	0.09	-0.6
5057	26.63	168.36	4953.95	545	-540.65	69.32	0.36	0.2	-0.67
5102	26.55	168.25	4994.19	565.11	-560.38	73.4	0.21	-0.18	-0.24
5148	26.66	168.25	5035.32	585.67	-580.55	77.6	0.24	0.24	0
5240	26.66	168.25	5117.54	626.87	-620.96	86	0	0	0