

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan
Grisham Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



09/03/2020

Operator Notice Regarding
C-104 Denial and Request for Information
30-015-45177 SND 12 01 FEDERAL 004 #003H

OCD is providing notice to operators that it will deny your C-104 – *Request for Allowable and Authorization to Transport* if it fails to provide complete and accurate information, including:

Test Allowable, New Well and Recompleted Well

*Please review/amend attachment(s):
Mark C-104 NW, 'AMENDED REPORT'*

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☐ Production Casing or Liner

*Amend/Verify highlighted areas.
Conflicting depths in highlighted
fields on C-104NW. Compare to
already approved Sundry Notices
currently in well files online.*

☐ Applicable Order (NSL, NSP, Other _____)

☐ Deviation Survey for Vertical Wells

☒ Directional Survey *Survey attached vs. Sundry TD , conflicting depths.*

☐ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

☐ C-103 Completion Sundry (or BLM equivalent)

☒ C-105 Completion Report (or BLM equivalent) *BLM REVISED approval copy/review highlighted fields. Record Clean-up 3160-4 Completion Report to BLM for approval. Conflicting depths as stated above for C-104NW.*

☐ All Logs Run on Well

The sale or transport of product without an approved C-104 violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC. OCD determines that your C-104 is incomplete or inaccurate, it will give you notice to resubmit your C-104 within 30 days. Failure to comply with this notice may result in enforcement action.

If you have any questions, please contact the local OCD District Office.

Once Complete, re-submit through e docs asap. Thank you.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011
EMNRD-OCD ARTESIA
REC'D: 7/21/2020
Submit one copy to appropriate District Office
☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address CHEVRON U.S.A. INC. 6301 DEAUVILLE BLVD. MIDLAND, TX 79706		² OGRID Number 4323
		³ Reason for Filing Code/ Effective Date New well / 3/2/2020
⁴ API Number 30 – 015–45177	⁵ Pool Name PURPLE SAGE;WOLFCAMP (GAS)	⁶ Pool Code 98220
⁷ Property Code 322260	⁸ Property Name SND 12 01 FED 004	⁹ Well Number 3H

II. ¹⁰ Surface Location

UL or lot no. P	Section 12	Township 24S	Range 31E	Lot Idn	Feet from the 367	North/South Line SOUTH	Feet from the 404	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location

UL or lot no. A	Section 1	Township 24S	Range 31E	Lot Idn	Feet from the 166	North/South line NORTH	Feet from the 1,241	East/West line EAST	County EDDY
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 3/2/2020	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
36785	DCP MIDSTREAM	G
271831	ENDEAVOR	O

IV. Well Completion Data

²¹ Spud Date 9/15/2018	²² Ready Date 2/12/2020	²³ TD 22,058' / 12,002'	²⁴ PBTD 21,955'	²⁵ Perforations 12,068'-21,892'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8", 54.5# J-55 BTC	843'		850 sks CL: C
12-1/4"		9-5/8", 43.5# L-80 LTC	11,345'		3,149 sks CL: C
8-1/2"		5-1/2", 20# P110 BTC	22,047'		3,190 sks CL: C / 100 sks CL: H
		2-7/8" Tubing string	11,697'		Packer @ 11,676'

V. Well Test Data

³¹ Date New Oil 3/2/2020	³² Gas Delivery Date 3/2/2020	³³ Test Date 3/22/2020	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 898	³⁶ Csg. Pressure 0
³⁷ Choke Size 128	³⁸ Oil 1,968	³⁹ Water 4,926	⁴⁰ Gas 2,280		⁴¹ Test Method PVT

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION	
Printed name: LAURA BECERRA	Approved by: 	
Title: PERMITTING SPECIALIST	Approval Date:	
E-mail Address: LBECERRA@CHEVRON.COM	Refer to page 1 of the attachments.	
Date: 4/30/2020		

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
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

EMNRD-OCDA ARTESIA Form C-102
REC'D: 7/21/2020
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
"As-Drilled"

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45177	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 322260	⁵ Property Name SND 12 01 FED 004	⁶ Well Number 3H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3587'

¹⁰ Surface Location

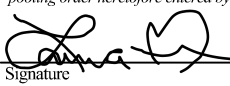
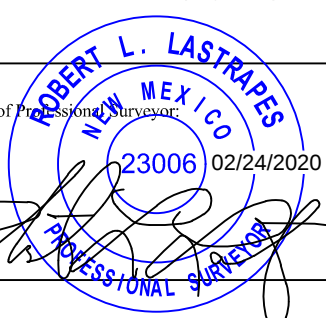
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	24 SOUTH	31 EAST, N.M.P.M.		367'	SOUTH	404'	EAST	EDDY

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
A	1	24 SOUTH	31 EAST, N.M.P.M.		166'	NORTH	1241'	EAST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill Defining Well	¹⁴ Consolidation Code	¹⁵ Order No. R-20250
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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.

¹⁶ <table border="1"><thead><tr><th>AS-STAKED SND 12 01 FED 004 3H WELL</th><th>AS-DRILLED BOTTOM HOLE LOCATION</th></tr></thead><tbody><tr><td>X= 688,486' Y= 446,295' NAD 27 LAT. 32.225511° N LONG. 103.723813° W</td><td>X= 687,595' Y= 456,322' NAD 27 LAT. 32.253089° N LONG. 103.726510° W</td></tr><tr><td>X= 729,670' Y= 446,353' NAD83/2011 LAT. 32.225634° N LONG. 103.724295° W</td><td>X= 728,779' Y= 456,381' NAD83/2011 LAT. 32.253212° N LONG. 103.726994° W</td></tr></tbody></table> ELEVATION +3587' NAVD 88 <table border="1"><thead><tr><th>FINAL KICK OFF POINT</th></tr></thead><tbody><tr><td>X= 687,620' Y= 446,018' NAD 27 LAT. 32.224765° N LONG. 103.726619° W</td></tr><tr><td>X= 728,804' Y= 446,077' NAD83/2011 LAT. 32.224889° N LONG. 103.727101° W</td></tr></tbody></table> <table border="1"><thead><tr><th>FINAL FIRST TAKE POINT</th><th>FINAL LAST TAKE POINT</th></tr></thead><tbody><tr><td>X= 687,616' Y= 446,353' NAD 27 LAT. 32.225684° N LONG. 103.726623° W</td><td>X= 687,593' Y= 456,156' NAD 27 LAT. 32.252633° N LONG. 103.726519° W</td></tr><tr><td>X= 728,800' Y= 446,411' NAD83/2011 LAT. 32.225808° N LONG. 103.727105° W</td><td>X= 728,777' Y= 456,215' NAD83/2011 LAT. 32.252756° N LONG. 103.727003° W</td></tr></tbody></table> CORNER COORDINATES TABLE (NAD 27) A - Y=456465.72, X=683556.77 B - Y=456494.87, X=688834.92 C - Y=445905.30, X=683610.86 D - Y=445929.75, X=688892.05	AS-STAKED SND 12 01 FED 004 3H WELL	AS-DRILLED BOTTOM HOLE LOCATION	X= 688,486' Y= 446,295' NAD 27 LAT. 32.225511° N LONG. 103.723813° W	X= 687,595' Y= 456,322' NAD 27 LAT. 32.253089° N LONG. 103.726510° W	X= 729,670' Y= 446,353' NAD83/2011 LAT. 32.225634° N LONG. 103.724295° W	X= 728,779' Y= 456,381' NAD83/2011 LAT. 32.253212° N LONG. 103.726994° W	FINAL KICK OFF POINT	X= 687,620' Y= 446,018' NAD 27 LAT. 32.224765° N LONG. 103.726619° W	X= 728,804' Y= 446,077' NAD83/2011 LAT. 32.224889° N LONG. 103.727101° W	FINAL FIRST TAKE POINT	FINAL LAST TAKE POINT	X= 687,616' Y= 446,353' NAD 27 LAT. 32.225684° N LONG. 103.726623° W	X= 687,593' Y= 456,156' NAD 27 LAT. 32.252633° N LONG. 103.726519° W	X= 728,800' Y= 446,411' NAD83/2011 LAT. 32.225808° N LONG. 103.727105° W	X= 728,777' Y= 456,215' NAD83/2011 LAT. 32.252756° N LONG. 103.727003° W	Final Last Take Point at 21,892' MD 331.73' FNL, 1,243.56' FEL Final First Take Point at 12,068' MD 428.81' FSL, 1,273.17' FEL Final Kick Off Point at 11,469' MD 94.52' FSL, 1,271.88' FEL	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 to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  4/16/2020 Signature Date Laura Becerra Printed Name LBecerra@Chevron.com E-mail Address 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. 07/31/2017 Date of Survey Signature and Seal of Professional Surveyor:  23006 Certificate Number
AS-STAKED SND 12 01 FED 004 3H WELL	AS-DRILLED BOTTOM HOLE LOCATION																
X= 688,486' Y= 446,295' NAD 27 LAT. 32.225511° N LONG. 103.723813° W	X= 687,595' Y= 456,322' NAD 27 LAT. 32.253089° N LONG. 103.726510° W																
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Intent ☐ As Drilled ☒

API # 30-015-45177			
Operator Name: CHEVRON USA INC		Property Name: SND 12 01 FED 004	Well Number 3H

Kick Off Point (KOP)

UL P	Section 12	Township 24S	Range 31E	Lot	Feet 95	From N/S FSL	Feet 1,272	From E/W FEL	County EDDY
Latitude 32.224889					Longitude 103.727101			NAD NAD 83/86	

First Take Point (FTP)

UL P	Section 12	Township 24S	Range 31E	Lot	Feet 429	From N/S FSL	Feet 1,273	From E/W FEL	County EDDY
Latitude 32.225808					Longitude 103.727105			NAD NAD 83/86	

Last Take Point (LTP)

UL A	Section 1	Township 24S	Range 31E	Lot	Feet 332	From N/S FNL	Feet 1,244	From E/W FEL	County EDDY
Latitude 32.252756					Longitude 103.727003			NAD NAD 86/86	

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)



May 21, 2019

Chevron USA In.
6301 Deauville Blvd.
Midland, TX, 79706

12, 24S, 31E, Eddy NM
N 32.22564 W 103.72430

Re:

CLIENT: Chevron USA In.
WELL: SND 12 01 Federal 004 #3H ST01
FIELD: Purple Sage (Wolfcamp)

RIG: Patterson 816
COUNTY: Eddy
API NO: 30-015-45177
JOB NO: 18MLD3964

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Orlando Rendon FE	SND 12 01 Federal 004 #3H ST01 Side Track	16958.00 Ft to 22017.00 Ft	May 8, 2019 to May 19, 2019	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Dana Lasher
Field Service Manager

Schlumberger-Private

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
12, 24S, 31E, Eddy NM
N 32.22564 W 103.72430

I, Orlando Rendon certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 08, 2019 through May 19, 2019, conduct or supervise the taking of the SlimPulse surveys from a depth of 16958.00 feet to a depth of 22017.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Chevron USA Inc. for the SND 12 01 Federal 004 #3H ST01 Well (Side Track) API No. 30-015-45177 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Orlando Rendon
FE



Subscribed and Sworn to before me this 21st day of May (month) 2019 (yr)

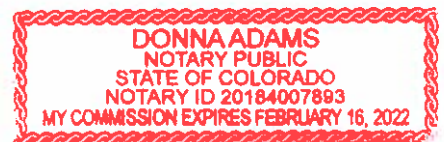
My Commission expires:

2-16-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft Survey Geodetic Report (Def Survey)



Report Date: May 20, 2019 - 10:13 AM
Client: Chevron
Field: NM Eddy County (NAD 27)
Structure / Slot: Chevron SND 12 01 FED 004 3H / Chevron SND 12 01 FED 001 3H
Well: Chevron SND 12 01 FED 004 3H
Borehole: ST01
UWI / API#: Unknown / Unknown
Survey Name: Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft
Survey Date: May 20, 2019
Tort / AHD / DDI / ERD Ratio: 273.346 ° / 11253.892 ft / 6.752 / 0.938
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 31.84437", W 103° 43' 25.72332"
Location Grid N/E Y/X: N 446295.000 ftUS, E 688486.000 ftUS
CRS Grid Convergence Angle: 0.3250 °
Grid Scale Factor: 0.99994978
Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.690 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 28ft
TVD Reference Elevation: 3615.000 ft above MSL
Seabed / Ground Elevation: 3587.000 ft above MSL
Magnetic Declination: 6.733 °
Total Gravity Field Strength: 998.4293mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47910.397 nT
Magnetic Dip Angle: 59.900 °
Declination Date: May 20, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.3250 °
Total Corr Mag North->Grid North: 6.4084 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	446295.00	688486.00	N 32 13 31.84	W 103 43 25.72
MWD INC Only	148.00	0.33	244.81	148.00	-0.18	-0.18	-0.39	0.22	446294.82	688485.61	N 32 13 31.84	W 103 43 25.73
First SLB MWD Survey	238.00	0.44	213.60	238.00	-0.58	-0.58	-0.81	0.26	446294.42	688485.19	N 32 13 31.84	W 103 43 25.73
	328.00	0.34	203.81	328.00	-1.11	-1.11	-1.11	0.13	446293.89	688484.89	N 32 13 31.83	W 103 43 25.74
	419.00	0.38	230.02	418.99	-1.54	-1.55	-1.45	0.18	446293.45	688484.55	N 32 13 31.83	W 103 43 25.74
	515.00	0.28	204.09	514.99	-1.96	-1.97	-1.79	0.18	446293.03	688484.21	N 32 13 31.82	W 103 43 25.74
	608.00	0.44	202.59	607.99	-2.50	-2.51	-2.02	0.17	446292.49	688483.98	N 32 13 31.82	W 103 43 25.75
	700.00	0.66	187.74	699.99	-3.35	-3.36	-2.23	0.28	446291.64	688483.77	N 32 13 31.81	W 103 43 25.75
MWD INC Only	795.00	0.76	187.23	794.98	-4.51	-4.53	-2.38	0.11	446290.47	688483.62	N 32 13 31.80	W 103 43 25.75
MWD INC Only	808.00	0.70	187.96	807.98	-4.68	-4.69	-2.40	0.47	446290.31	688483.60	N 32 13 31.80	W 103 43 25.75
MWD INC Only	871.00	0.91	189.03	870.97	-5.55	-5.57	-2.53	0.33	446289.43	688483.47	N 32 13 31.79	W 103 43 25.75
MWD INC Only	967.00	0.80	172.80	966.96	-6.97	-6.98	-2.57	0.28	446288.02	688483.43	N 32 13 31.78	W 103 43 25.75
MWD INC Only	1062.00	0.66	180.49	1061.95	-8.18	-8.19	-2.49	0.18	446286.81	688483.51	N 32 13 31.76	W 103 43 25.75
	1157.00	0.51	168.70	1156.95	-9.14	-9.15	-2.41	0.20	446285.85	688483.59	N 32 13 31.75	W 103 43 25.75
	1253.00	1.88	202.94	1252.93	-11.00	-11.02	-2.94	1.55	446283.98	688483.06	N 32 13 31.74	W 103 43 25.76
	1348.00	3.93	220.18	1347.80	-14.91	-14.94	-5.65	2.32	446280.06	688480.35	N 32 13 31.70	W 103 43 25.79
First DMAG Survey	1444.00	6.07	228.64	1443.43	-20.75	-20.81	-11.58	2.35	446274.19	688474.42	N 32 13 31.64	W 103 43 25.86
	1540.00	7.49	236.71	1538.76	-27.49	-27.60	-20.62	1.78	446267.40	688465.38	N 32 13 31.57	W 103 43 25.97
	1636.00	8.48	247.77	1633.83	-33.54	-33.71	-32.41	1.90	446261.29	688453.59	N 32 13 31.51	W 103 43 26.10
	1731.00	9.07	260.07	1727.73	-37.40	-37.65	-46.27	2.07	446257.35	688439.73	N 32 13 31.47	W 103 43 26.26
	1827.00	10.99	263.41	1822.26	-39.67	-40.01	-62.81	2.09	446254.99	688423.19	N 32 13 31.45	W 103 43 26.46
	1923.00	12.72	261.79	1916.21	-42.12	-42.57	-82.37	1.83	446252.43	688403.64	N 32 13 31.43	W 103 43 26.68
	2019.00	14.33	258.81	2009.54	-45.82	-46.38	-104.48	1.83	446248.62	688381.52	N 32 13 31.39	W 103 43 26.94
	2114.00	14.79	257.78	2101.49	-50.54	-51.23	-127.87	0.56	446243.77	688358.14	N 32 13 31.34	W 103 43 27.22
	2210.00	14.39	259.14	2194.40	-55.25	-56.07	-151.56	0.55	446238.93	688334.45	N 32 13 31.30	W 103 43 27.49
	2305.00	14.42	256.41	2286.41	-60.13	-61.08	-174.65	0.72	446233.93	688311.36	N 32 13 31.25	W 103 43 27.76
	2401.00	14.42	255.47	2379.39	-65.81	-66.88	-197.84	0.24	446228.12	688288.17	N 32 13 31.19	W 103 43 28.03
	2497.00	14.44	256.65	2472.36	-71.45	-72.65	-221.06	0.31	446222.36	688264.95	N 32 13 31.14	W 103 43 28.30
	2593.00	14.54	252.81	2565.31	-77.65	-78.97	-244.22	1.01	446216.03	688241.80	N 32 13 31.08	W 103 43 28.57
	2688.00	14.53	251.15	2657.27	-84.90	-86.35	-266.89	0.44	446208.66	688219.13	N 32 13 31.00	W 103 43 28.84
	2784.00	14.09	251.52	2750.29	-92.38	-93.94	-289.37	0.47	446201.06	688196.65	N 32 13 30.93	W 103 43 29.10
	2880.00	13.63	252.25	2843.49	-99.41	-101.09	-311.22	0.51	446193.91	688174.79	N 32 13 30.86	W 103 43 29.35
	2976.00	14.54	251.72	2936.60	-106.52	-108.32	-333.44	0.96	446186.68	688152.58	N 32 13 30.79	W 103 43 29.61
	3072.00	14.80	251.86	3029.48	-113.99	-115.92	-356.53	0.27	446179.09	688129.49	N 32 13 30.72	W 103 43 29.88
	3167.00	14.26	252.05	3121.44	-121.25	-123.30	-379.19	0.57	446171.70	688106.83	N 32 13 30.65	W 103 43 30.15
	3263.00	13.59	252.02	3214.61	-128.26	-130.43	-401.17	0.70	446164.58	688084.85	N 32 13 30.58	W 103 43 30.40
	3359.00	13.14	250.87	3308.01	-135.20	-137.49	-422.21	0.54	446157.52	688063.81	N 32 13 30.51	W 103 43 30.65
	3455.00	14.30	249.68	3401.27	-142.78	-145.18	-443.64	1.24	446149.83	688042.39	N 32 13 30.43	W 103 43 30.90
	3550.00	14.48	250.58	3493.29	-150.68	-153.20	-465.84	0.30	446141.80	688020.18	N 32 13 30.35	W 103 43 31.16
	3646.00	14.19	250.24	3586.30	-158.53	-161.17	-488.23	0.31	446133.84	687997.79	N 32 13 30.28	W 103 43 31.42
	3742.00	13.93	249.82	3679.43	-166.37	-169.14	-510.15	0.29	446125.87	687975.87	N 32 13 30.20	W 103 43 31.67
	3837.00	13.64	249.43	3771.69	-174.14	-177.02	-531.37	0.32	446117.99	687954.66	N 32 13 30.12	W 103 43 31.92
	3933.00	13.09	249.19	3865.09	-181.87	-184.86	-552.13	0.58	446110.15	687933.90	N 32 13 30.05	W 103 43 32.16
	4028.00	12.81	251.43	3957.68	-188.93	-192.03	-572.17	0.60	446102.98	687913.86	N 32 13 29.98	W 103 43 32.40
	4124.00	12.48	251.79	4051.35	-195.46	-198.66	-592.11	0.35	446096.35	687893.92	N 32 13 29.91	W 103 43 32.63
	4219.00	11.85	250.31	4144.21	-201.85	-205.16	-611.05	0.74	446089.85	687874.98	N 32 13 29.85	W 103 43 32.85
	4315.00	11.72	252.45	4238.19	-208.01	-211.42	-628.63	0.47	446083.59	687856.41	N 32 13 29.79	W 103 43 33.07
	4411.00	11.75	255.17	4332.19	-213.35	-216.86	-648.37	0.58	446078.15	687837.66	N 32 13 29.73	W 103 43 33.28
	4507.00	11.09	253.81	4426.28	-218.33	-221.94	-666.69	0.74	446073.07	687819.35	N 32 13 29.69	W 103 43 33.50
	4602.00	10.55	254.28	4519.59	-223.14	-226.84	-683.83	0.58	446068.17	687802.20	N 32 13 29.64	W 103 43 33.70
	4697.00	9.05	254.95	4613.21	-227.35	-231.14	-699.42	1.58	446063.87	687786.62	N 32 13 29.60	W 103 43 33.88
	4793.00	7.82	256.45	4708.17	-230.77	-234.63	-713.06	1.30	446060.38	687772.98	N 32 13 29.56	W 103 43 34.04
	4889.00	6.75	257.97	4803.39	-233.41	-237.33	-724.93	1.13	446057.68	687761.11	N 32 13 29.54	W 103 43 34.18
	4984.00	5.26	258.90	4897.87	-235.36	-239.34	-734.66	1.57	446055.68	687751.37	N 32 13 29.52	W 103 43 34.29
	5079.00	4.35	257.81	4992.53	-236.92	-240.94	-742.46	0.96	446054.08	687743.58	N 32 13 29.50	W 103 43 34.38
	5174.00	3.59	257.46	5087.30	-238.29	-242.34	-748.88	0.80	446052.67	687737.16	N 32 13 29.49	W 103 43 34.46
	5270.00	3.50	257.20	5183.12	-239.56	-243.64	-754.67	0.10	446051.37	687731.36	N 32 13 29.48	W 103 43 34.52
	5366.00	3.05	255.41	5278.96	-240.82	-244.94	-760.00	0.48	446050.08	687726.04	N 32 13 29.46	W 103 43 34.59
	5461.00	2.86	252.92	5373.84	-242.13	-246.27	-764.72	0.24	446048.74	687721.32	N 32 13 29.45	W 103 43 34.64
	5557.00	1.04	245.82	5469.78	-243.17	-247.33	-767.80	1.91	446047.68	687718.24	N 32 13 29.44	W 103 43 34.68
	5653.00	0.66	233.77	5565.76	-243.85	-248.01	-769.04	0.44	446047.00	687717.00	N 32 13 29.43	W 103 43 34.69
	5748.00	0.92	245.14	5660.76	-244.49	-248.66	-770.17	0.32	446046.36	687715.87	N 32 13 29.43	W 103 43 34.70
	5843.00	0.43	303.41	5755.75	-244.61	-248.78	-771.16	0.83	446046.23	687714.88	N 32 13 29.43	W 103 43 34.72
	5938.00	0.62	333.65	5850.75	-243.95	-248.12	-771.69	0.35	446046.89	687714.35	N 32 13 29.43	W 103 43 34.72
	6033.00	0.65	328.27	5945.74	-243.02	-247.21	-772.20	0.07	446047.81	687713.84	N 32 13 29.44	W 103 43 34.73
	6128.00	0.59	307.86	6040.73	-242.26	-246.45	-772.87	0.24	446048.57	687713.17	N 32 13 29.45	W 103 43 34.74
	6223.00	0.56	305.21	6135.73	-241.69	-245.88	-773.64	0.04	446049.13	687712.40	N 32 13 29.45	W 103 43 34.74
	6318.00	0.59	288.46	6230.73	-241.26	-245.46	-774.48	0.18	446049.56	687711.56	N 32 13 29.46	W 103 43 34.75
	6414.00	0.45	294.95	6326.72	-240.94	-245.14	-775.29	0.16	446049.87	687710.75	N 32 13 29.46	W 103 43 34.76
	6509.00	0.41	268.07	6421.72	-240.79	-245.00	-775.97	0.21	446050.02	687710.07	N 32 13 29.46	W 103 43 34.77
	6604.00	0.28	284.31	6516.72	-240.74	-244.95	-776.53	0.17	446050.06	687709.51	N 32 13 29.46	W 103 43 34.78
	6699.00	0.27	282.41	6611								

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7462.00	0.34	232.27	7374.70	-240.91	-245.14	-781.12	0.09	446049.87	687704.92	N 32 13 29.46	W 103 43 34.83
	7558.00	0.34	213.74	7470.70	-241.32	-245.55	-781.51	0.11	446049.46	687704.53	N 32 13 29.46	W 103 43 34.84
	7653.00	0.36	199.03	7565.70	-241.83	-246.07	-781.76	0.10	446048.95	687704.28	N 32 13 29.45	W 103 43 34.84
	7749.00	0.37	200.94	7661.70	-242.41	-246.64	-781.97	0.02	446048.37	687704.07	N 32 13 29.45	W 103 43 34.84
	7844.00	0.38	179.61	7756.70	-243.01	-247.24	-782.08	0.15	446047.77	687703.96	N 32 13 29.44	W 103 43 34.84
	7940.00	0.40	198.53	7852.69	-243.64	-247.88	-782.18	0.14	446047.13	687703.86	N 32 13 29.44	W 103 43 34.84
	8036.00	0.54	209.91	7948.69	-244.35	-248.59	-782.51	0.17	446046.43	687703.53	N 32 13 29.43	W 103 43 34.85
	8132.00	0.43	214.32	8044.69	-245.04	-249.28	-782.94	0.12	446045.74	687703.10	N 32 13 29.42	W 103 43 34.85
	8227.00	0.51	219.74	8139.68	-245.65	-249.90	-783.41	0.10	446045.12	687702.63	N 32 13 29.42	W 103 43 34.86
	8323.00	0.62	217.68	8235.68	-246.39	-250.64	-784.01	0.12	446044.38	687702.04	N 32 13 29.41	W 103 43 34.87
	8419.00	0.78	216.08	8331.67	-247.33	-251.58	-784.71	0.17	446043.44	687701.33	N 32 13 29.40	W 103 43 34.87
	8514.00	0.93	213.35	8426.66	-248.49	-252.74	-785.51	0.16	446042.27	687700.53	N 32 13 29.39	W 103 43 34.88
	8610.00	0.93	219.15	8522.65	-249.74	-254.00	-786.43	0.10	446041.02	687699.61	N 32 13 29.38	W 103 43 34.89
	8705.00	0.91	223.75	8617.64	-250.88	-255.14	-787.44	0.08	446039.87	687698.60	N 32 13 29.36	W 103 43 34.91
	8800.00	0.79	239.24	8712.63	-251.75	-256.02	-788.52	0.27	446038.99	687697.52	N 32 13 29.36	W 103 43 34.92
	8895.00	0.86	253.60	8807.62	-252.28	-256.56	-789.77	0.23	446038.46	687696.27	N 32 13 29.35	W 103 43 34.93
	8990.00	0.86	267.99	8902.61	-252.50	-256.78	-791.17	0.23	446038.23	687694.87	N 32 13 29.35	W 103 43 34.95
	9086.00	0.73	262.35	8998.60	-252.60	-256.89	-792.49	0.16	446038.12	687693.55	N 32 13 29.35	W 103 43 34.97
	9181.00	0.70	245.55	9093.59	-252.91	-257.21	-793.62	0.22	446037.80	687692.42	N 32 13 29.34	W 103 43 34.98
	9276.00	0.93	250.00	9188.58	-253.41	-257.71	-794.88	0.25	446037.30	687691.17	N 32 13 29.34	W 103 43 34.99
	9371.00	1.51	258.73	9283.56	-253.91	-258.22	-796.83	0.64	446036.79	687689.21	N 32 13 29.33	W 103 43 35.02
	9466.00	2.08	258.30	9378.51	-254.49	-258.82	-799.74	0.60	446036.20	687686.30	N 32 13 29.33	W 103 43 35.05
	9571.00	2.34	242.01	9483.43	-255.86	-260.21	-803.50	0.64	446034.80	687682.54	N 32 13 29.31	W 103 43 35.09
	9666.00	2.32	234.96	9578.36	-257.85	-262.22	-806.79	0.30	446032.79	687679.25	N 32 13 29.29	W 103 43 35.13
	9761.00	2.16	232.22	9673.28	-260.04	-264.42	-809.78	0.20	446030.59	687676.26	N 32 13 29.27	W 103 43 35.17
	9856.00	2.13	233.85	9768.22	-262.16	-266.56	-812.62	0.07	446028.45	687673.42	N 32 13 29.25	W 103 43 35.20
	9951.00	2.05	234.87	9863.15	-264.17	-268.58	-815.43	0.09	446026.43	687670.61	N 32 13 29.23	W 103 43 35.23
	10046.00	2.22	221.73	9958.09	-266.50	-270.93	-818.05	0.54	446024.08	687667.99	N 32 13 29.21	W 103 43 35.26
	10141.00	1.96	212.57	10053.02	-269.23	-273.67	-820.15	0.44	446021.34	687665.90	N 32 13 29.18	W 103 43 35.29
	10236.00	1.91	224.03	10147.97	-271.73	-276.18	-822.12	0.41	446018.83	687663.92	N 32 13 29.16	W 103 43 35.31
	10331.00	1.92	217.51	10242.92	-274.12	-278.58	-824.19	0.23	446016.43	687661.85	N 32 13 29.13	W 103 43 35.34
	10427.00	2.06	212.43	10338.86	-276.84	-281.31	-826.10	0.23	446013.70	687659.95	N 32 13 29.11	W 103 43 35.36
	10522.00	1.76	195.19	10433.81	-279.68	-284.16	-827.39	0.68	446010.85	687658.65	N 32 13 29.08	W 103 43 35.37
	10617.00	1.69	194.81	10528.76	-282.44	-286.93	-828.13	0.07	446008.09	687657.91	N 32 13 29.05	W 103 43 35.38
	10713.00	2.01	200.57	10624.71	-285.38	-289.87	-829.09	0.39	446005.14	687656.96	N 32 13 29.02	W 103 43 35.39
	10799.00	2.26	239.38	10710.66	-287.65	-292.15	-831.08	1.67	446002.87	687654.97	N 32 13 29.00	W 103 43 35.42
	10895.00	4.11	294.53	10806.53	-287.16	-291.68	-835.84	3.51	446003.33	687650.21	N 32 13 29.00	W 103 43 35.47
	10991.00	4.02	295.34	10902.28	-288.81	-294.01	-842.01	0.11	446006.20	687644.04	N 32 13 29.03	W 103 43 35.54
	11087.00	3.57	292.82	10998.07	-281.62	-286.21	-847.80	0.50	446008.80	687638.24	N 32 13 29.06	W 103 43 35.61
	11182.00	3.23	293.11	11092.91	-279.40	-284.02	-852.99	0.36	446011.00	687633.05	N 32 13 29.08	W 103 43 35.67
	11278.00	3.03	293.35	11188.76	-277.30	-281.95	-857.81	0.21	446013.07	687628.24	N 32 13 29.10	W 103 43 35.73
	11402.00	2.60	286.28	11312.61	-275.19	-279.86	-863.52	0.45	446015.15	687622.53	N 32 13 29.12	W 103 43 35.79
	11469.00	5.82	340.92	11379.45	-271.53	-276.22	-866.09	7.17	446018.79	687619.96	N 32 13 29.16	W 103 43 35.82
	11503.00	11.61	356.60	11413.04	-266.48	-271.17	-866.86	18.25	446023.84	687619.19	N 32 13 29.21	W 103 43 35.83
	11535.00	12.62	2.61	11444.33	-259.77	-264.47	-866.89	5.05	446030.55	687619.16	N 32 13 29.28	W 103 43 35.83
	11565.00	15.26	0.36	11473.45	-252.55	-257.24	-866.71	8.98	446037.77	687619.33	N 32 13 29.35	W 103 43 35.83
	11612.00	20.89	357.62	11518.11	-237.98	-242.68	-867.02	12.11	446052.34	687619.02	N 32 13 29.49	W 103 43 35.83
	11661.00	25.25	359.38	11563.18	-218.79	-223.49	-867.50	9.01	446071.53	687618.55	N 32 13 29.68	W 103 43 35.84
	11709.00	30.61	1.27	11605.57	-196.32	-201.02	-867.34	11.32	446094.00	687618.71	N 32 13 29.90	W 103 43 35.83
	11756.00	34.72	0.99	11645.13	-170.97	-175.66	-866.84	8.75	446119.35	687619.20	N 32 13 30.15	W 103 43 35.83
	11804.00	39.84	358.36	11683.32	-141.91	-146.60	-867.05	11.17	446148.41	687619.00	N 32 13 30.44	W 103 43 35.83
	11852.00	43.55	359.65	11719.15	-109.99	-114.68	-867.59	7.93	446180.32	687618.46	N 32 13 30.76	W 103 43 35.83
	11897.00	47.35	358.33	11750.71	-77.93	-82.63	-868.16	8.70	446212.38	687617.88	N 32 13 31.08	W 103 43 35.83
	11948.00	50.92	359.99	11784.08	-39.37	-44.07	-868.71	7.42	446250.93	687617.33	N 32 13 31.46	W 103 43 35.84
	11952.00	51.34	359.86	11786.59	-36.26	-40.96	-868.72	10.90	446254.04	687617.33	N 32 13 31.49	W 103 43 35.84
	11992.00	55.60	358.68	11810.39	-4.12	-8.83	-869.14	10.90	446286.17	687616.91	N 32 13 31.81	W 103 43 35.84
	12043.00	63.86	0.22	11836.08	39.88	35.18	-869.53	16.40	446330.18	687616.51	N 32 13 32.24	W 103 43 35.84
	12100.00	68.72	1.18	11858.99	92.05	87.35	-868.89	8.66	446382.34	687617.16	N 32 13 32.76	W 103 43 35.83
	12139.00	71.92	1.58	11872.13	128.75	124.05	-868.00	8.26	446419.05	687618.04	N 32 13 33.12	W 103 43 35.82
	12187.00	72.67	1.29	11886.72	174.45	169.77	-866.86	1.67	446464.76	687619.19	N 32 13 33.57	W 103 43 35.80
	12235.00	76.17	0.31	11899.61	220.67	215.99	-866.22	7.55	446510.98	687619.83	N 32 13 34.03	W 103 43 35.79
	12283.00	76.37	0.43	11911.01	267.30	262.62	-865.91	0.48	446557.60	687620.13	N 32 13 34.49	W 103 43 35.79
	12331.00	77.88	0.61	11921.70	314.09	309.41	-865.49	3.17	446604.39	687620.56	N 32 13 34.95	W 103 43 35.78
	12389.00	80.37	1.33	11932.64	371.02	366.35	-864.52	4.46	446661.33	687621.52	N 32 13 35.52	W 103 43 35.76
	12426.00	83.07	0.85	11937.97	407.62	402.96	-863.83	7.41	446697.94	687622.22	N 32 13 35.88	W 103 43 35.75
	12480.00	86.25	1.83	11943.00	461.36	456.70	-862.57	6.16	446751.68	687623.48	N 32 13 36.41	W 103 43 35.73
	12522.00	86.46	1.56	11945.67	503.25	498.60	-861.33	0.81	446793.57	687624.72	N 32 13 36.83	W 103 43 35.72
	12606.00	88.52	1.36	11949.34	587.12	582.48	-859.19	2.46	446877.45	687626.85	N 32 13 37.66	W 103 43 35.69
	12701.00	89.42	1.99	11951.05	682.05	677.43	-856.42	1.16	446927.39	687629.63	N 32 13 38.60	W 103 43 35.65
	12797.00	89.73	1.89	11951.76	777.97	773.37	-853.17	0.34	447068.33	687632.88	N 32 13 39.54	W 103 43 35.60
	12988.00	89.76	2.13	11952.61	968.82	964.25	-846.47	0.13	447259.20	687639.58	N 32 13 41.43	W 103 43 35.51
	13084.00	89.83	2.30	11952.96	1064.72	1060.18	-842.76	0.19	447355.12	687643.29	N 32 13 42.38	W 103 43 35.46
	13180.00	89.90	0.40	11953.18	1160.68	1156.15	-840.49	1.98	447451.09	687645.55	N 32 13 43.33	W 103 43 35.43
	13275.00	89.93	359.95	11953.32	1255.67	1251.14	-840.20	0.47	447546.08	687645.84	N 32 13 44.27	W 103 43 35.42
	13370.00	90.10	359.74	11953.30	1350.67	1346.14	-840.46	0.28	447641.07	687645.58	N 32 13 45.21	W 103 43 35.42
	13466.00	89.79	0.35	11953.39	1446.67	1442.14	-840.39	0.71	447737.07	687645.66	N 32 13 46.16	W 103 43 35.41
	13562.00	89.86	0.6									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
First ST01 Survey	16894.00	90.62	0.47	11967.35	4873.91	4869.24	-875.46	0.26	451163.99	687610.59	N 32 14 20.08	W 103 43 35.59
	16958.00	89.52	3.20	11967.27	4937.85	4933.20	-873.41	4.60	451227.94	687612.64	N 32 14 20.71	W 103 43 35.57
	17003.00	85.25	8.21	11969.33	4982.54	4977.91	-868.94	14.62	451272.65	687617.10	N 32 14 21.15	W 103 43 35.51
	17045.00	84.36	7.95	11973.13	5023.92	5019.32	-863.06	2.21	451314.06	687622.98	N 32 14 21.56	W 103 43 35.44
	17092.00	82.52	2.30	11978.50	5070.38	5065.80	-858.89	12.57	451360.54	687627.15	N 32 14 22.02	W 103 43 35.39
	17140.00	84.15	357.69	11984.08	5118.04	5113.46	-858.90	10.13	451408.20	687627.15	N 32 14 22.49	W 103 43 35.39
	17188.00	83.90	357.46	11989.07	5165.74	5161.16	-860.92	0.71	451455.89	687625.13	N 32 14 22.96	W 103 43 35.41
	17235.00	86.59	356.70	11992.97	5212.53	5207.93	-863.30	5.95	451502.66	687622.74	N 32 14 23.43	W 103 43 35.43
	17281.00	88.25	356.60	11995.04	5258.41	5253.81	-865.99	3.62	451548.53	687620.06	N 32 14 23.88	W 103 43 35.46
	17339.00	90.89	356.56	11995.47	5316.32	5311.70	-869.45	4.55	451606.42	687616.60	N 32 14 24.45	W 103 43 35.49
	17434.00	89.86	359.36	11994.85	5411.27	5406.62	-872.83	3.14	451701.34	687613.21	N 32 14 25.39	W 103 43 35.53
	17530.00	90.03	3.10	11994.94	5507.21	5502.58	-870.77	3.90	451797.30	687615.27	N 32 14 26.34	W 103 43 35.50
	17625.00	90.24	5.32	11994.72	5601.91	5597.32	-863.80	2.35	451892.03	687622.25	N 32 14 27.28	W 103 43 35.41
	17720.00	89.69	3.70	11994.78	5696.57	5692.02	-856.33	1.80	451986.73	687629.72	N 32 14 28.22	W 103 43 35.32
	17815.00	90.00	2.18	11995.04	5791.42	5786.90	-851.45	1.63	452081.59	687634.59	N 32 14 29.16	W 103 43 35.25
	17911.00	89.93	2.97	11995.09	5887.29	5882.80	-847.14	0.83	452177.49	687638.90	N 32 14 30.10	W 103 43 35.20
	18006.00	89.48	1.80	11995.58	5982.19	5977.71	-843.19	1.32	452272.40	687642.86	N 32 14 31.04	W 103 43 35.15
	18101.00	91.75	0.10	11994.56	6077.15	6072.68	-841.61	2.99	452367.37	687644.43	N 32 14 31.98	W 103 43 35.12
	18197.00	89.90	355.19	11993.18	6173.04	6168.56	-845.56	5.46	452463.24	687640.49	N 32 14 32.93	W 103 43 35.16
	18292.00	90.00	354.85	11993.26	6267.73	6263.20	-853.80	0.37	452557.87	687632.24	N 32 14 33.87	W 103 43 35.25
	18386.00	88.69	356.37	11994.34	6361.48	6356.91	-861.00	2.13	452651.58	687625.05	N 32 14 34.80	W 103 43 35.33
	18481.00	89.83	0.10	11995.57	6456.42	6451.84	-863.92	4.11	452746.51	687622.12	N 32 14 35.74	W 103 43 35.36
	18576.00	90.69	0.45	11995.13	6551.42	6546.84	-863.47	0.98	452841.50	687622.58	N 32 14 36.68	W 103 43 35.34
	18670.00	90.27	0.19	11994.35	6645.41	6640.83	-862.94	0.53	452935.49	687623.10	N 32 14 37.61	W 103 43 35.33
	18764.00	89.66	0.19	11994.40	6739.40	6734.83	-862.63	0.65	453029.48	687623.41	N 32 14 38.54	W 103 43 35.32
	18858.00	90.24	359.89	11994.49	6833.40	6828.83	-862.57	0.69	453123.48	687623.48	N 32 14 39.47	W 103 43 35.31
	18952.00	90.03	359.51	11994.27	6927.40	6922.83	-863.06	0.46	453217.47	687622.99	N 32 14 40.40	W 103 43 35.31
	19046.00	88.97	359.60	11995.09	7021.39	7016.82	-863.79	1.13	453311.46	687622.26	N 32 14 41.33	W 103 43 35.32
	19140.00	91.72	0.31	11994.52	7115.38	7110.81	-863.86	3.02	453405.44	687622.18	N 32 14 42.26	W 103 43 35.31
	19234.00	89.38	359.86	11993.62	7209.37	7204.80	-863.72	2.53	453499.42	687622.32	N 32 14 43.19	W 103 43 35.30
	19329.00	90.21	0.36	11993.96	7304.36	7299.80	-863.54	1.02	453594.42	687622.51	N 32 14 44.13	W 103 43 35.30
	19423.00	88.52	358.38	11995.00	7398.35	7393.78	-864.57	2.77	453688.39	687621.47	N 32 14 45.06	W 103 43 35.30
	19518.00	90.31	0.22	11995.97	7493.33	7488.76	-865.73	2.70	453783.37	687620.31	N 32 14 46.00	W 103 43 35.31
	19612.00	90.55	0.16	11995.26	7587.33	7582.76	-865.42	0.26	453877.36	687620.62	N 32 14 46.93	W 103 43 35.30
	19707.00	90.17	1.30	11994.67	7682.31	7677.74	-864.21	1.26	453972.34	687621.83	N 32 14 47.87	W 103 43 35.28
	19801.00	90.31	0.97	11994.27	7776.28	7771.73	-862.35	0.38	454066.32	687623.70	N 32 14 48.80	W 103 43 35.25
	19897.00	90.93	0.67	11993.23	7872.25	7867.71	-860.97	0.72	454162.30	687625.07	N 32 14 49.75	W 103 43 35.23
	19992.00	90.93	0.57	11991.69	7967.23	7962.69	-859.95	0.11	454257.28	687626.10	N 32 14 50.69	W 103 43 35.21
	20087.00	90.52	0.20	11990.49	8062.21	8057.68	-859.31	0.58	454352.26	687626.74	N 32 14 51.63	W 103 43 35.20
	20182.00	90.72	0.27	11989.46	8157.20	8152.67	-858.92	0.22	454447.25	687627.13	N 32 14 52.57	W 103 43 35.19
	20277.00	90.38	359.93	11988.55	8252.20	8247.67	-858.75	0.51	454542.24	687627.29	N 32 14 53.51	W 103 43 35.18
	20372.00	89.07	359.61	11989.01	8347.19	8342.67	-859.13	1.42	454637.23	687626.91	N 32 14 54.45	W 103 43 35.18
	20467.00	89.55	358.82	11990.15	8442.18	8437.65	-860.44	0.97	454732.21	687625.61	N 32 14 55.39	W 103 43 35.18
	20563.00	89.59	358.03	11990.87	8538.15	8533.61	-863.07	0.82	454828.16	687622.97	N 32 14 56.34	W 103 43 35.21
	20658.00	89.55	357.14	11991.58	8633.09	8628.52	-867.08	0.94	454923.07	687618.97	N 32 14 57.27	W 103 43 35.25
	20754.00	89.31	356.21	11992.54	8728.95	8724.35	-872.65	1.00	455018.90	687613.40	N 32 14 58.22	W 103 43 35.31
	20850.00	89.28	356.50	11993.72	8824.78	8820.15	-878.75	0.30	455114.69	687607.30	N 32 14 59.17	W 103 43 35.37
	20945.00	88.76	356.32	11995.34	8919.61	8914.95	-884.70	0.58	455209.49	687601.35	N 32 15 0.11	W 103 43 35.44
	21041.00	89.59	357.69	11996.73	9015.49	9010.81	-889.71	1.67	455305.34	687596.34	N 32 15 1.06	W 103 43 35.49
	21137.00	88.93	358.62	11997.97	9111.45	9106.75	-892.80	1.19	455401.27	687593.25	N 32 15 2.01	W 103 43 35.52
	21233.00	89.28	359.14	11999.47	9207.42	9202.72	-894.68	0.65	455497.24	687591.37	N 32 15 2.96	W 103 43 35.53
	21328.00	89.69	0.05	12000.32	9302.42	9297.71	-895.35	1.05	455592.22	687590.70	N 32 15 3.90	W 103 43 35.53
	21430.00	89.55	0.47	12001.00	9404.41	9399.71	-894.89	0.43	455694.22	687591.16	N 32 15 4.91	W 103 43 35.52
	21520.00	89.59	0.03	12001.67	9494.40	9489.70	-894.49	0.49	455784.21	687591.55	N 32 15 5.80	W 103 43 35.51
	21616.00	91.24	0.67	12000.98	9590.39	9585.69	-893.91	1.84	455880.19	687592.14	N 32 15 6.75	W 103 43 35.50
	21711.00	90.17	0.32	11999.81	9685.37	9680.68	-893.09	1.19	455975.18	687592.96	N 32 15 7.69	W 103 43 35.48
	21807.00	89.97	0.02	11999.69	9781.37	9776.68	-892.80	0.38	456071.17	687593.25	N 32 15 8.64	W 103 43 35.47
Toe HL Cross	21893.00	89.38	0.23	12000.18	9867.36	9862.68	-892.62	0.73	456157.16	687593.43	N 32 15 9.49	W 103 43 35.47
	21903.00	89.31	0.25	12000.29	9877.36	9872.68	-892.58	0.73	456167.16	687593.47	N 32 15 9.59	W 103 43 35.46
	21999.00	89.55	0.78	12001.25	9973.35	9968.67	-891.71	0.61	456263.15	687594.33	N 32 15 10.54	W 103 43 35.45
	22017.00	89.76	0.90	12001.36	9991.34	9986.67	-891.45	1.34	456281.15	687594.60	N 32 15 10.72	W 103 43 35.44
Last SLB MWD Survey Projection to Bit	22058.00	89.76	0.90	12001.53	10032.34	10027.66	-890.80	0.00	456322.14	687595.24	N 32 15 11.12	W 103 43 35.43

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 3-D 97.01% Confidence 3.0000 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/98.425	30.000	30.000	A027Ua_INC-ONLY-Depth Only	ST01 / Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft
	1	28.000	28.000	Act Stns	30.000	30.000	A027Ua_INC-ONLY-Depth Only	ST01 / Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft
	1	28.000	148.000	Act Stns	30.000	30.000	A027Ua_INC-ONLY	ST01 / Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft
	1	148.000	700.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM	ST01 / Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft
	1	700.000	1157.000	Act Stns	30.000	30.000	A027Ua_INC-ONLY	ST01 / Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft
	1	1157.000	1348.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM	ST01 / Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft
	1	1348.000	9466.000	Act Stns	30.000	30.000	B002Ma_MWD+HDGM+AX	ST01 / Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft
	1	9466.000	22058.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM	ST01 / Chevron SND 12 01 FED 004 3H ST01 MWD to 22058ft

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTEMNRD-OCD ARTESIA
REC'D: 7/21/2020FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other			5. Lease Serial No. NMNM120901		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator CHEVRON USA INCORPORATED E-Mail: LBECERRA@CHEVRON.COM			7. Unit or CA Agreement Name and No.		
3. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706			8. Lease Name and Well No. SND 12 01 FED 004 3H		
3a. Phone No. (include area code) Ph: 432-687-7665			9. API Well No. 30-015-45177-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SESE 367FSL 404FEL 32.225634 N Lat, 103.724295 W Lon Sec 12 T24S R31E Mer NMP At top prod interval reported below SESE 429FSL 1273FEL 32.225808 N Lat, 103.727105 W Lon Sec 12 T24S R31E Mer NMP At total depth NENE 166FNL 1241FEL 32.253212 N Lat, 103.726994 W Lon			10. Field and Pool, or Exploratory WILDCAT 11. Sec., T., R., M., or Block and Survey or Area Sec 12 T24S R31E Mer NMP		
14. Date Spudded 09/15/2018			15. Date T.D. Reached 05/19/2019		
16. Date Completed ☐ D & A ☒ Ready to Prod. 02/12/2020			17. Elevations (DF, KB, RT, GL)* 3587 GL		
18. Total Depth: MD 22058 TVD 12002			19. Plug Back T.D.: MD 21955 TVD		
20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) MUDLOG MWDGAMMA			22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	28	843		850		28	
12.250	9.625 L-80	43.5	28	11345	4630	3149		28	
8.500	5.500 P-110	20.0	28	22047		3238		6120	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	11697	11676						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12068	21892	12068 TO 21868	3.130		OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
12068 TO 21868	1.2 MM BBLS FLUID & 27.1 MM# PROPPANT

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/02/2020	03/22/2020	24	→	1968.0	2280.0	4926.0	47.0		GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
128	SI 898	0.0	→	1968	2280	4926	1	PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #513672 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
NO MEASURABLE GAS

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.	31. Formation (Log) Markers
--	-----------------------------

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				RUSTLER CASTILE LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIME AVALON SAND	838 3116 4691 4721 5611 6828 8569 8623

32. Additional remarks (include plugging procedure):
 FORMATION MD
 LOWER AVALON 9,108
 1st BONE SPRING 9,576
 2nd BONE SPRING 10,215
 3rd BONE SPRING CARB 11,276
 3rd BONE SPRING 11,509
 WOLFCAMP A 12,074

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #513672 Verified by the BLM Well Information System.
For CHEVRON USA INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 05/21/2020 (20DMH0147SE)

Name (*please print*) LAURA BECERRA Title REGULATORY SPECIALIST

Signature _____ (Electronic Submission) Date 05/01/2020

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.

Additional data for transaction #513672 that would not fit on the form

32. Additional remarks, continued

Revisions to Operator-Submitted EC Data for Well Completion #513672

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM120901	NMNM120901
Agreement:	NMNM139115X	
Operator:	CHEVRON USA 6301 DEAUVILLE BLVD. MIDLAND, TX 79706 Ph: 432-687-7665	CHEVRON USA INCORPORATED 6301 DEAUVILLE BLVD MIDLAND, TX 79706 Ph: 432 687 7100
Admin Contact:	LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM Ph: 432-687-7665	LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM Ph: 432-687-7665
Tech Contact:	LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM Ph: 432-687-7665	LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM Ph: 432-687-7665
Well Name: Number:	SND 12 01 FED 004 3H	SND 12 01 FED 004 3H
Location:		
State:	NM	NM
County:	EDDY	EDDY
S/T/R:	Sec 12 T24S R31E Mer NMP	Sec 12 T24S R31E Mer NMP
Surf Loc:	SESE 367FSL 404FEL 32.225634 N Lat, 103.724295 W Lon	SESE 367FSL 404FEL 32.225634 N Lat, 103.724295 W Lon
Field/Pool:	PURPLE SAGE;WOLFCAMP (GAS	WILDCAT
Logs Run:	MUD LOG, MWD GAMMA	MUDLOG MWDGAMMA
Producing Intervals - Formations:	WOLFCAMP	WOLFCAMP
Porous Zones:		
Markers:	RUSTLER CASTILE LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIME UPPER AVALON	RUSTLER CASTILE LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIME AVALON SAND