

District I
1625 N. French Dr., Hobbs, NM 88240

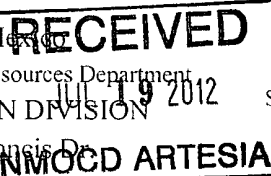
District II
1301 W. Grand Avenue, Artesia, NM 88210

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 Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office
☐ AMENDED REPORT



WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40504	² Pool Code 60000 55510	³ Pool Name Scanlon Draw TURKEY TRACK BONE SPRING
⁴ Property Code 39356	⁵ Property Name PERIDOT "13" STATE	
⁶ OGRID No. 6137	⁷ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	
		⁸ Well Number 4H
		⁹ Elevation 3392.1

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
H	12	19 S	29 E		1475	NORTH	1070	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

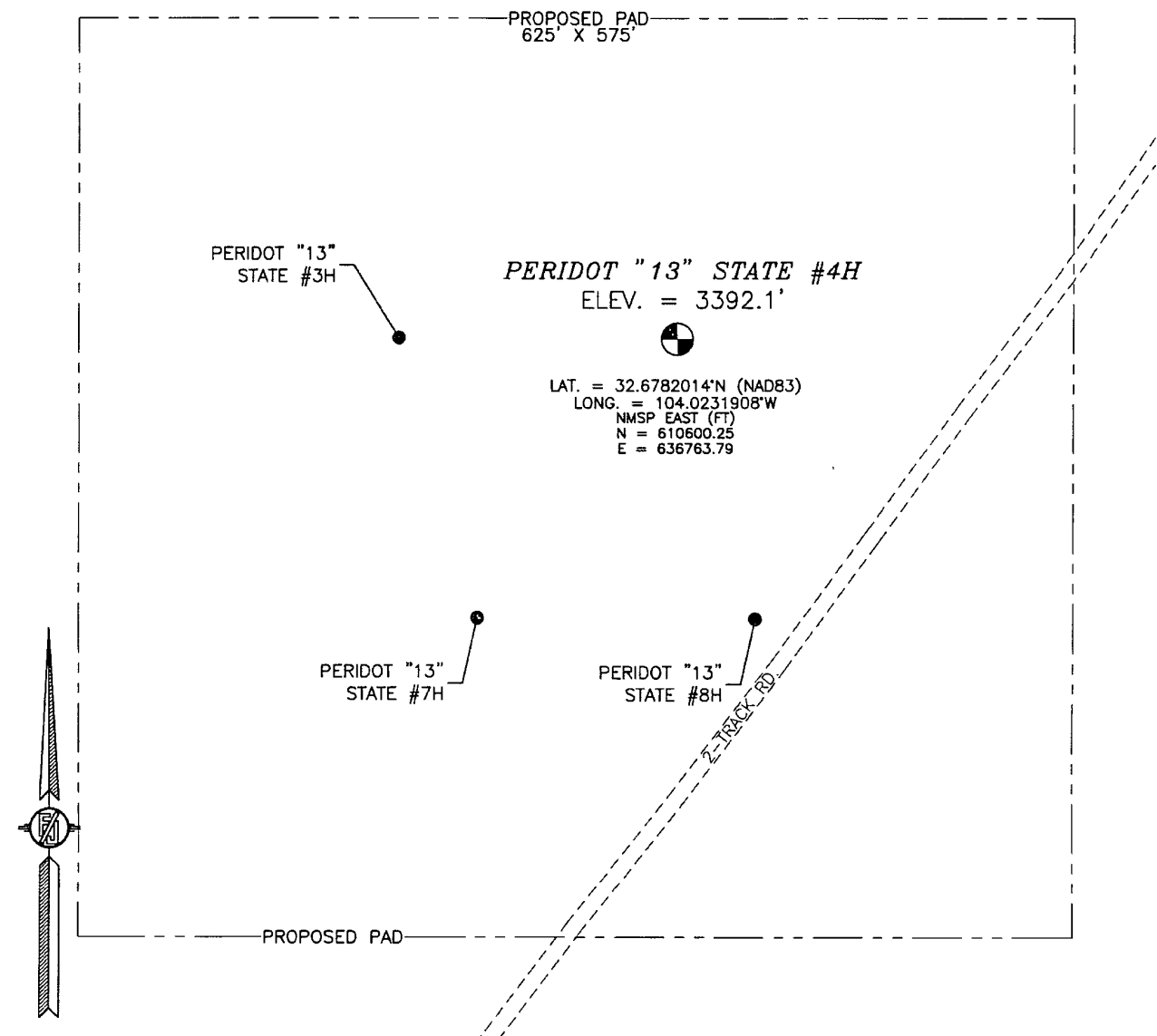
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	19 S	29 E		330	SOUTH	990	EAST	EDDY

¹² Dedicated Acres 280	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

		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 leased 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 Signature: <i>DR</i> Date: 7/18/2012 Printed Name: David H. Cook Regulatory Specialist
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: MAY 5, 2012 Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: T-12000-F JAR-MILLO, PLS 12797 SURVEY NO: 1010		

SECTION 12, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200

SCALE 1" = 100'
DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 210 (OLD LOCO) AND STATE HIGHWAY 360, GO SOUTHEAST ON STATE HIGHWAY 360 FOR APPROX. 3.2 MILES. GO SOUTH (DCP WEST TURKEY TRACK COMPRESSOR STATION SIGN) FOR APPROX. 1.2 MILES. GO SOUTHEAST-SOUTH FOR APPROX. 0.3 OF A MILE. GO EAST APPROX. 0.1 OF A MILE. SOUTHWEST APPROX. 0.2 OF A MILE TO PAD SURVEY.

DEVON ENERGY PRODUCTION COMPANY, L.P.

PERIDOT "13" STATE #4H

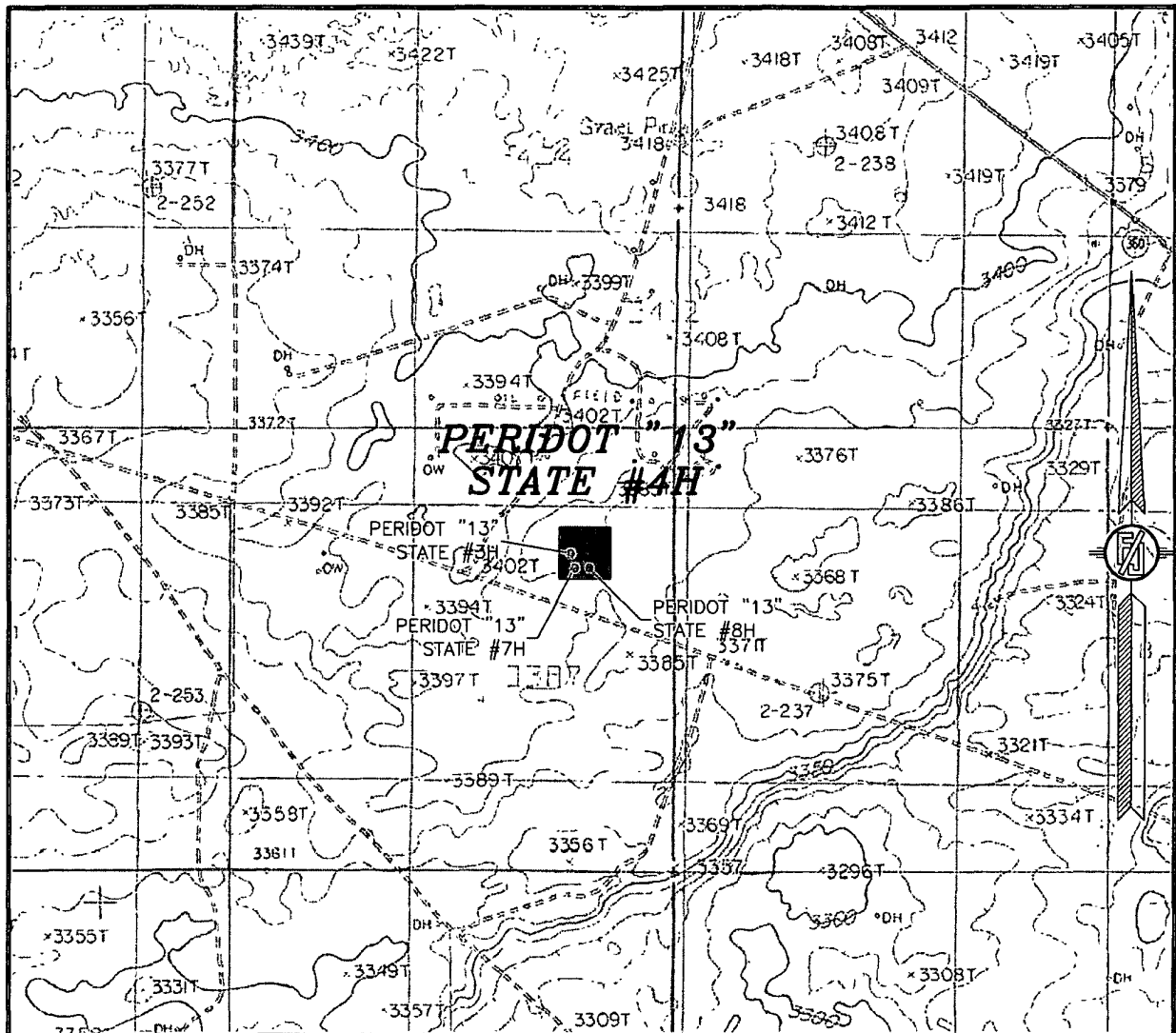
LOCATED 1475 FT. FROM THE NORTH LINE
AND 1070 FT. FROM THE EAST LINE OF
SECTION 12, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 5, 2012

SURVEY NO. 1010

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 12, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ILLINOIS CAMP NE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

PERIDOT "13" STATE #4H

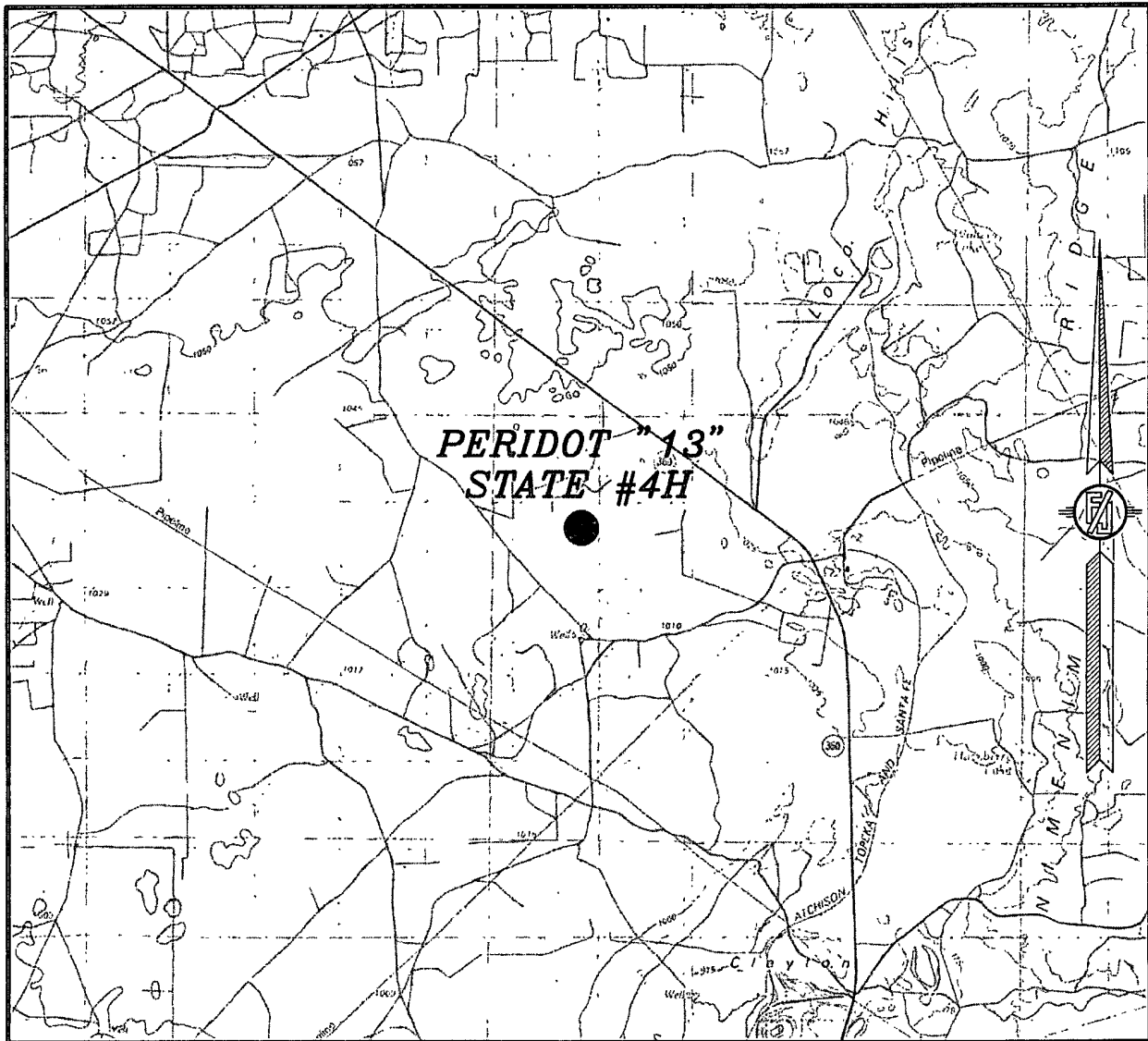
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(575) 234-3341

SECTION 12, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

PERIDOT "13" STATE #4H

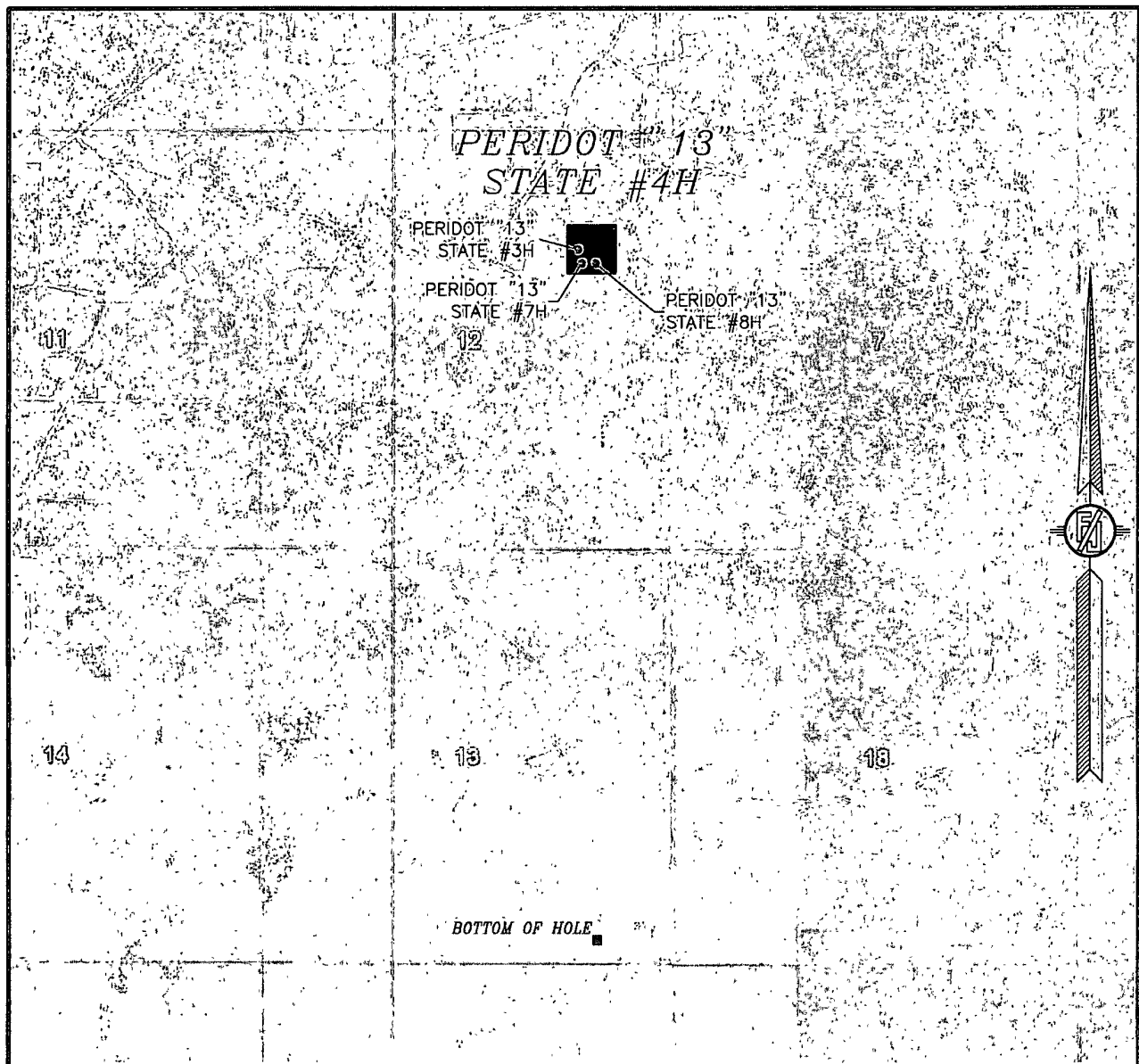
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EDDY COUNTY, STATE OF NEW MEXICO

MAY 5, 2012

SURVEY NO. 1010

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 12, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
JUNE, 2011

DEVON ENERGY PRODUCTION COMPANY, L.P.

PERIDOT "13" STATE #4H

LOCATED 1475 FT. FROM THE NORTH LINE
AND 1070 FT. FROM THE EAST LINE OF
SECTION 12, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 5, 2012

SURVEY NO. 1010

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

Devon Energy Corporation

HALLIBURTON | Sperry Drilling



Project: Eddy County, NM (NAD 83)
Site: Peridot 13 State
Well: Peridot 13 State 4H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation GL 3392.1' + 25'KB @ 3417.10ft (Cactus 126)
Northing 610600.25 **Easting** 636763.79 **Latitude** 32° 40' 41.525 N **Longitude** 104° 1' 23.487 W

CASING DETAILS

TVD	MD	Name
250.00	250.00	Surface Csg
3600.00	3600.00	Intermediate Csg
8200.00	16695.67	Production Csg

SECTION DETAILS

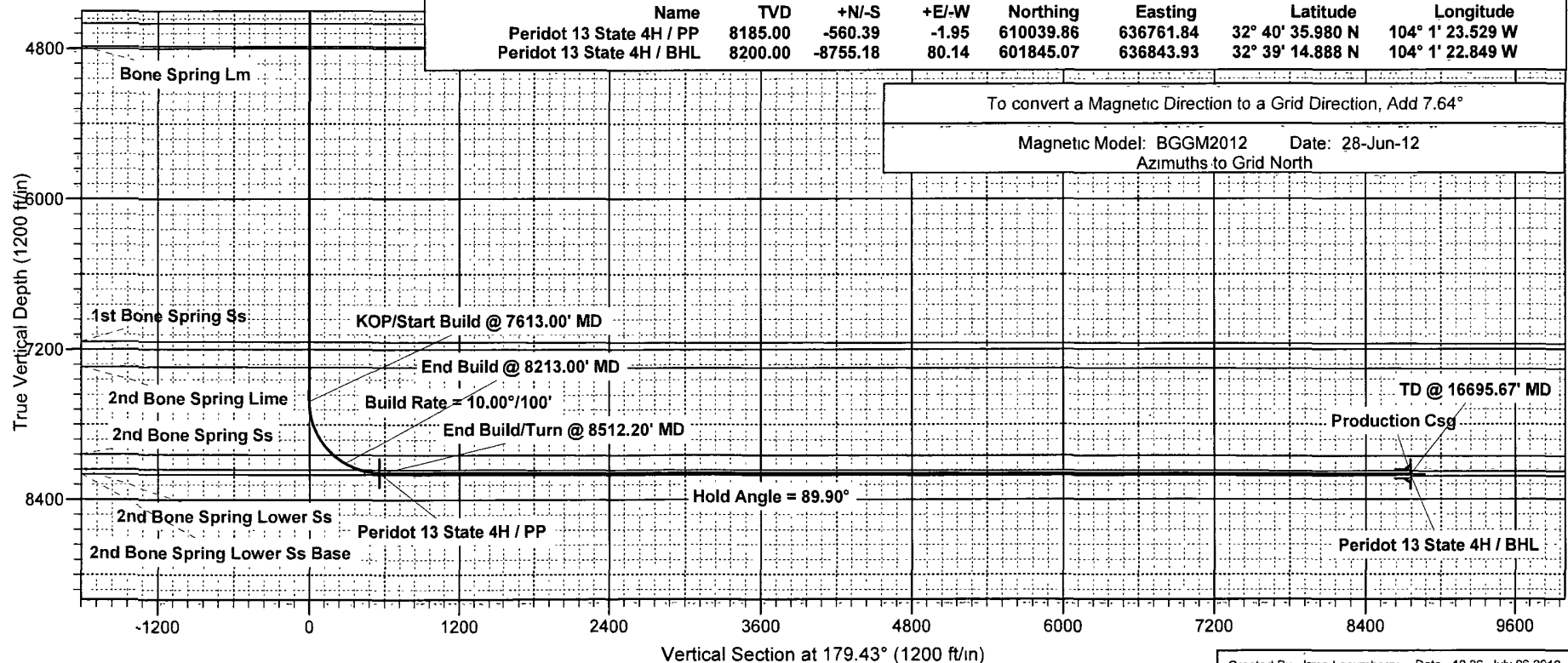
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7613.00	0.00	0.00	7613.00	0.00	0.00	0.00	0.00	0.00	KOP/Start Build
8213.00	60.00	180.50	8109.20	-286.47	-2.50	10.00	180.50	286.43	End Build
8512.20	89.90	179.42	8186.00	-572.13	-2.12	10.00	-2.16	572.08	End Build/Turn
16695.67	89.90	179.42	8200.00	-8755.18	80.14	0.00	0.00	8755.54	TD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Peridot 13 State 4H / PP	8185.00	-560.39	-1.95	610039.86	636761.84	32° 40' 35.980 N	104° 1' 23.529 W
Peridot 13 State 4H / BHL	8200.00	-8755.18	80.14	601845.07	636843.93	32° 39' 14.888 N	104° 1' 22.849 W

To convert a Magnetic Direction to a Grid Direction, Add 7.64°

Magnetic Model: BGGM2012 Date: 28-Jun-12
 Azimuths to Grid North



Project: Eddy County, NM (NAD 83)
 Site: Peridot 13 State
 Well: Peridot 13 State 4H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: Cactus 126

SURFACE LOCATION

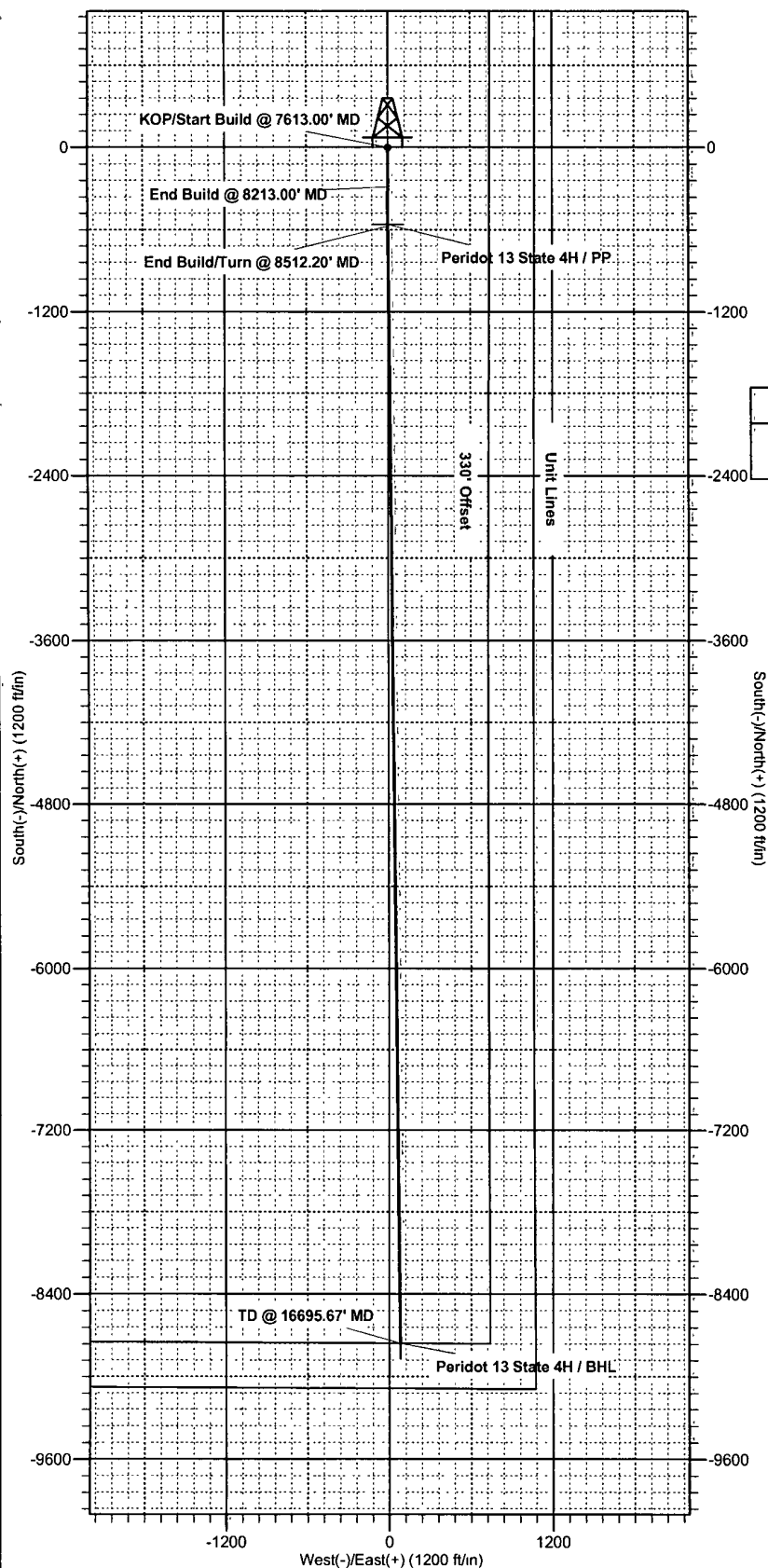
US State Plane 1983
 New Mexico Eastern Zone
 Elevation GL 3392 1' + 25'KB @ 3417.10ft (Cactus 126)

Northing	Easting	Latitude	Longitude
610600 25	636763 79	32° 40' 41 525 N	104° 1' 23 487 W

To convert a Magnetic Direction to a Grid Direction, Add 7.64°

Magnetic Model: BGGM2012 Date: 28-Jun-12
 Azimuths to Grid North

devon



Devon Energy Corporation

Eddy County, NM (NAD 83)

Peridot 13 State

Peridot 13 State 4H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

06 July, 2012

Well Coordinates 610,600 25 N, 636,763 79 E (32° 40' 41 53" N, 104° 01' 23 49" W)
Ground Level 3,392 10 ft

Local Coordinate Origin	Centered on Well Peridot 13 State 4H
Viewing Datum.	GL 3392.1' + 25'KB @ 3417 10ft (Cactus 126)
TVDs to System	N
North Reference	Grid
Unit System.	API - US Survey Feet

Version 2003 16 Build: 431

HALLIBURTON

Plan Report for Peridot 13 State 4H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
25 00	0 00	0 00	25 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Rustler										
250 00	0 00	0 00	250 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Surface Csg										
305 00	0 00	0 00	305 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Salado										
1,325 00	0 00	0 00	1,325 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Tansil Dolomite										
1,435 00	0 00	0 00	1,435 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Yates										
1,780 00	0 00	0 00	1,780 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Seven Rivers										
2,230 00	0 00	0 00	2,230 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Queen										
3,195 00	0 00	0 00	3,195 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
San Andres										
3,600 00	0 00	0 00	3,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Intermediate Csg										
3,655 00	0 00	0 00	3,655 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Delaware										
4,600 00	0 00	0 00	4,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Cutoff Dolomite										
4,785 00	0 00	0 00	4,785 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Bone Spring Lm										
7,140 00	0 00	0 00	7,140 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1st Bone Spring Ss										
7,340 00	0 00	0 00	7,340 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2nd Bone Spring Lime										
7,613 00	0 00	0 00	7,613 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Build Rate = 10.00°/100' - KOP/Start Build @ 7613.00' MD										
7,700 00	8 70	180 50	7,699 67	-6 59	-0 06	6 59	10 00	10 00	0 00	180 50
7,800 00	18 70	180 50	7,796 70	-30 25	-0 26	30 24	10 00	10 00	0 00	0 00
7,900 00	28 70	180 50	7,888 15	-70 39	-0 61	70 38	10 00	10 00	0 00	0 00
8,000 00	38 70	180 50	7,971 24	-125 80	-1 10	125 78	10 00	10 00	0 00	0 00
8,095.31	48 23	180 50	8,040 33	-191 29	-1 67	191 26	10 00	10 00	0 00	0 00
2nd Bone Spring Ss										
8,100 00	48 70	180 50	8,043 44	-194 80	-1 70	194 77	10 00	10 00	0 00	0 00
8,200 00	58 70	180 50	8,102 57	-275 28	-2 40	275 25	10 00	10 00	0 00	0 00
8,213 00	60 00	180 50	8,109 20	-286 47	-2 50	286 43	10 00	10 00	0 00	0 00
End Build @ 8213.00' MD										
8,300 00	68 69	180 15	8,146 82	-364 82	-2 94	364.77	10 00	9 99	-0 40	-2 16
8,342 23	72 92	180 00	8,160 71	-404 69	-2 99	404 64	10 00	9 99	-0 37	-2 01
2nd Bone Spring Lower Ss										
8,400 00	78 69	179 79	8,174 87	-460 67	-2 88	460 62	10 00	9 99	-0 35	-1 95
8,500 00	88 68	179 46	8,185 85	-559 94	-2 24	559 89	10 00	9 99	-0 33	-1 91
8,512 20	89 90	179 42	8,186 00	-572 13	-2 12	572 08	10 00	9 99	-0 33	-1 87
End Build/Turn @ 8512.20' MD - Hold Angle = 89.90°										
8,600 00	89 90	179 42	8,186 15	-659 93	-1 24	659 88	0 00	0 00	0 00	0 00
8,700 00	89 90	179 42	8,186 33	-759 92	-0 23	759 88	0 00	0 00	0 00	0 00
8,800 00	89 90	179 42	8,186 50	-859 92	0 77	859 88	0 00	0 00	0 00	0 00
8,900 00	89 90	179 42	8,186 67	-959 91	1 78	959 88	0 00	0 00	0 00	0 00
9,000 00	89 90	179 42	8,186 84	-1,059 91	2 79	1,059 88	0 00	0 00	0 00	0 00
9,100 00	89 90	179 42	8,187.01	-1,159 90	3 79	1,159 88	0 00	0 00	0 00	0 00
9,200 00	89 90	179 42	8,187 18	-1,259 90	4 80	1,259 88	0 00	0 00	0 00	0 00
9,300 00	89 90	179 42	8,187 35	-1,359 89	5 80	1,359 88	0 00	0 00	0 00	0 00

Plan Report for Peridot 13 State 4H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
9,400.00	89.90	179.42	8,187.52	-1,459.89	6.81	1,459.88	0.00	0.00	0.00	0.00
9,500.00	89.90	179.42	8,187.69	-1,559.88	7.81	1,559.88	0.00	0.00	0.00	0.00
9,600.00	89.90	179.42	8,187.86	-1,659.88	8.82	1,659.88	0.00	0.00	0.00	0.00
9,700.00	89.90	179.42	8,188.04	-1,759.87	9.82	1,759.88	0.00	0.00	0.00	0.00
9,800.00	89.90	179.42	8,188.21	-1,859.87	10.83	1,859.88	0.00	0.00	0.00	0.00
9,900.00	89.90	179.42	8,188.38	-1,959.86	11.83	1,959.88	0.00	0.00	0.00	0.00
10,000.00	89.90	179.42	8,188.55	-2,059.86	12.84	2,059.88	0.00	0.00	0.00	0.00
10,100.00	89.90	179.42	8,188.72	-2,159.85	13.84	2,159.88	0.00	0.00	0.00	0.00
10,200.00	89.90	179.42	8,188.89	-2,259.85	14.85	2,259.88	0.00	0.00	0.00	0.00
10,300.00	89.90	179.42	8,189.06	-2,359.84	15.85	2,359.88	0.00	0.00	0.00	0.00
10,400.00	89.90	179.42	8,189.23	-2,459.84	16.86	2,459.88	0.00	0.00	0.00	0.00
10,500.00	89.90	179.42	8,189.40	-2,559.83	17.86	2,559.88	0.00	0.00	0.00	0.00
10,600.00	89.90	179.42	8,189.57	-2,659.83	18.87	2,659.88	0.00	0.00	0.00	0.00
10,700.00	89.90	179.42	8,189.75	-2,759.82	19.87	2,759.88	0.00	0.00	0.00	0.00
10,800.00	89.90	179.42	8,189.92	-2,859.82	20.88	2,859.88	0.00	0.00	0.00	0.00
10,900.00	89.90	179.42	8,190.09	-2,959.81	21.88	2,959.88	0.00	0.00	0.00	0.00
11,000.00	89.90	179.42	8,190.26	-3,059.80	22.89	3,059.88	0.00	0.00	0.00	0.00
11,100.00	89.90	179.42	8,190.43	-3,159.80	23.89	3,159.88	0.00	0.00	0.00	0.00
11,200.00	89.90	179.42	8,190.60	-3,259.79	24.90	3,259.88	0.00	0.00	0.00	0.00
11,300.00	89.90	179.42	8,190.77	-3,359.79	25.90	3,359.88	0.00	0.00	0.00	0.00
11,400.00	89.90	179.42	8,190.94	-3,459.78	26.91	3,459.88	0.00	0.00	0.00	0.00
11,500.00	89.90	179.42	8,191.11	-3,559.78	27.91	3,559.88	0.00	0.00	0.00	0.00
11,600.00	89.90	179.42	8,191.29	-3,659.77	28.92	3,659.88	0.00	0.00	0.00	0.00
11,700.00	89.90	179.42	8,191.46	-3,759.77	29.92	3,759.88	0.00	0.00	0.00	0.00
11,800.00	89.90	179.42	8,191.63	-3,859.76	30.93	3,859.88	0.00	0.00	0.00	0.00
11,900.00	89.90	179.42	8,191.80	-3,959.76	31.94	3,959.88	0.00	0.00	0.00	0.00
12,000.00	89.90	179.42	8,191.97	-4,059.75	32.94	4,059.88	0.00	0.00	0.00	0.00
12,100.00	89.90	179.42	8,192.14	-4,159.75	33.95	4,159.88	0.00	0.00	0.00	0.00
12,200.00	89.90	179.42	8,192.31	-4,259.74	34.95	4,259.88	0.00	0.00	0.00	0.00
12,300.00	89.90	179.42	8,192.48	-4,359.74	35.96	4,359.88	0.00	0.00	0.00	0.00
12,400.00	89.90	179.42	8,192.65	-4,459.73	36.96	4,459.88	0.00	0.00	0.00	0.00
12,500.00	89.90	179.42	8,192.82	-4,559.73	37.97	4,559.88	0.00	0.00	0.00	0.00
12,600.00	89.90	179.42	8,193.00	-4,659.72	38.97	4,659.88	0.00	0.00	0.00	0.00
12,700.00	89.90	179.42	8,193.17	-4,759.72	39.98	4,759.88	0.00	0.00	0.00	0.00
12,800.00	89.90	179.42	8,193.34	-4,859.71	40.98	4,859.88	0.00	0.00	0.00	0.00
12,900.00	89.90	179.42	8,193.51	-4,959.71	41.99	4,959.88	0.00	0.00	0.00	0.00
13,000.00	89.90	179.42	8,193.68	-5,059.70	42.99	5,059.88	0.00	0.00	0.00	0.00
13,100.00	89.90	179.42	8,193.85	-5,159.70	44.00	5,159.88	0.00	0.00	0.00	0.00
13,200.00	89.90	179.42	8,194.02	-5,259.69	45.00	5,259.88	0.00	0.00	0.00	0.00
13,300.00	89.90	179.42	8,194.19	-5,359.69	46.01	5,359.88	0.00	0.00	0.00	0.00
13,400.00	89.90	179.42	8,194.36	-5,459.68	47.01	5,459.88	0.00	0.00	0.00	0.00
13,500.00	89.90	179.42	8,194.53	-5,559.67	48.02	5,559.88	0.00	0.00	0.00	0.00
13,600.00	89.90	179.42	8,194.71	-5,659.67	49.02	5,659.88	0.00	0.00	0.00	0.00
13,700.00	89.90	179.42	8,194.88	-5,759.66	50.03	5,759.88	0.00	0.00	0.00	0.00
13,800.00	89.90	179.42	8,195.05	-5,859.66	51.03	5,859.88	0.00	0.00	0.00	0.00
13,900.00	89.90	179.42	8,195.22	-5,959.65	52.04	5,959.88	0.00	0.00	0.00	0.00
14,000.00	89.90	179.42	8,195.39	-6,059.65	53.04	6,059.88	0.00	0.00	0.00	0.00
14,100.00	89.90	179.42	8,195.56	-6,159.64	54.05	6,159.88	0.00	0.00	0.00	0.00
14,200.00	89.90	179.42	8,195.73	-6,259.64	55.05	6,259.88	0.00	0.00	0.00	0.00
14,300.00	89.90	179.42	8,195.90	-6,359.63	56.06	6,359.88	0.00	0.00	0.00	0.00
14,400.00	89.90	179.42	8,196.07	-6,459.63	57.06	6,459.88	0.00	0.00	0.00	0.00
14,500.00	89.90	179.42	8,196.24	-6,559.62	58.07	6,559.88	0.00	0.00	0.00	0.00
14,600.00	89.90	179.42	8,196.42	-6,659.62	59.07	6,659.88	0.00	0.00	0.00	0.00
14,700.00	89.90	179.42	8,196.59	-6,759.61	60.08	6,759.88	0.00	0.00	0.00	0.00
14,800.00	89.90	179.42	8,196.76	-6,859.61	61.09	6,859.88	0.00	0.00	0.00	0.00
14,900.00	89.90	179.42	8,196.93	-6,959.60	62.09	6,959.88	0.00	0.00	0.00	0.00
15,000.00	89.90	179.42	8,197.10	-7,059.60	63.10	7,059.88	0.00	0.00	0.00	0.00
15,100.00	89.90	179.42	8,197.27	-7,159.59	64.10	7,159.87	0.00	0.00	0.00	0.00
15,200.00	89.90	179.42	8,197.44	-7,259.59	65.11	7,259.87	0.00	0.00	0.00	0.00
15,300.00	89.90	179.42	8,197.61	-7,359.58	66.11	7,359.87	0.00	0.00	0.00	0.00

Plan Report for Peridot 13 State 4H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
15,400.00	89.90	179.42	8,197.78	-7,459.58	67.12	7,459.87	0.00	0.00	0.00	0.00
15,500.00	89.90	179.42	8,197.96	-7,559.57	68.12	7,559.87	0.00	0.00	0.00	0.00
15,600.00	89.90	179.42	8,198.13	-7,659.57	69.13	7,659.87	0.00	0.00	0.00	0.00
15,700.00	89.90	179.42	8,198.30	-7,759.56	70.13	7,759.87	0.00	0.00	0.00	0.00
15,800.00	89.90	179.42	8,198.47	-7,859.56	71.14	7,859.87	0.00	0.00	0.00	0.00
15,900.00	89.90	179.42	8,198.64	-7,959.55	72.14	7,959.87	0.00	0.00	0.00	0.00
16,000.00	89.90	179.42	8,198.81	-8,059.54	73.15	8,059.87	0.00	0.00	0.00	0.00
16,100.00	89.90	179.42	8,198.98	-8,159.54	74.15	8,159.87	0.00	0.00	0.00	0.00
16,200.00	89.90	179.42	8,199.15	-8,259.53	75.16	8,259.87	0.00	0.00	0.00	0.00
16,300.00	89.90	179.42	8,199.32	-8,359.53	76.16	8,359.87	0.00	0.00	0.00	0.00
16,400.00	89.90	179.42	8,199.49	-8,459.52	77.17	8,459.87	0.00	0.00	0.00	0.00
16,500.00	89.90	179.42	8,199.67	-8,559.52	78.17	8,559.87	0.00	0.00	0.00	0.00
16,600.00	89.90	179.42	8,199.84	-8,659.51	79.18	8,659.87	0.00	0.00	0.00	0.00
16,695.67	89.90	179.42	8,200.00	-8,755.18	80.14	8,755.54	0.00	0.00	0.00	0.00

TD @ 16695.67' MD - Production Csg

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
7,613.00	7,613.00	0.00	0.00	Build Rate = 10.00°/100'
7,613.00	7,613.00	0.00	0.00	KOP/Start Build @ 7613.00' MD
8,213.00	8,109.20	-286.47	-2.50	End Build @ 8213.00' MD
8,512.20	8,186.00	-572.13	-2.12	End Build/Turn @ 8512.20' MD
8,512.20	8,186.00	-572.13	-2.12	Hold Angle = 89.90°
16,695.67	8,200.00	-8,755.18	80.14	TD @ 16695.67' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	+E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	179.43	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	16,695.67	Plan #1	MWD

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
250.00	250.00	Surface Csg	13-3/8	17-1/2
3,600.00	3,600.00	Intermediate Csg	9-5/8	12-1/4
16,695.67	8,200.00	Production Csg	5-1/2	8-3/4

Plan Report for Peridot 13 State 4H - Plan #1

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	8,200 00	2nd Bone Spring Lower Ss Base		0 10	179 43
25 00	25 00	Rustler		0 10	179 43
305 00	305 00	Salado		0 10	179 43
1,325 00	1,325 00	Tansil Dolomite		0 10	179 43
1,435 00	1,435 00	Yates		0 10	179 43
1,780 00	1,780 00	Seven Rivers		0 10	179 43
2,230 00	2,230 00	Queen		0 10	179 43
3,195 00	3,195 00	San Andres		0 10	179 43
3,655 00	3,655 00	Delaware		0 10	179 43
4,600 00	4,600 00	Cutoff Dolomite		0 10	179 43
4,785 00	4,785 00	Bone Spring Lm		0 10	179 43
7,140 00	7,140 00	1st Bone Spring Ss		0 10	179 43
7,340 00	7,340 00	2nd Bone Spring Lime		0 10	179 43
8,095 31	8,040 00	2nd Bone Spring Ss		0 10	179 43
8,342 23	8,160 00	2nd Bone Spring Lower Ss		0 10	179 43

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Peridot 13 State 4H / BHL	8,200 00	-8,755 18	80 14	Point
Peridot 13 State 4H / PP	8,185 00	-560 39	-1.95	Point

North Reference Sheet for Peridot 13 State - Peridot 13 State 4H - Wellbore #1

All data is in US Feet unless otherwise stated Directions and Coordinates are relative to Gnd North Reference

Vertical Depths are relative to GL 3392 1' + 25'KB @ 3417 10ft (Cactus 126) Northing and Easting are relative to Peridot 13 State 4H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin 0° 0' 0.000 E°, Latitude Origin 0° 0' 0.000 N°

False Easting 541,337 50ft, False Northing 0.00ft, Scale Reduction 0.99991952

Gnd Coordinates of Well 610,600 25 ft N, 636,763 79 ft E

Geographical Coordinates of Well 32° 40' 41 53" N, 104° 01' 23 49" W

Gnd Convergence at Surface is 0.17°

Based upon Minimum Curvature type calculations, at a Measured Depth of 16,695 67ft

the Bottom Hole Displacement is 8,755 55ft in the Direction of 179 48° (Gnd)

Magnetic Convergence at surface is -7 64° (28 June 2012, , BGGM2012)

