

Devon Energy, Burton Flat Deep Unit 82H

30-015-43380

1. Geologic Formations

TVD of target	7,339'	Pilot hole depth	N/A
MD at TD:	12,150'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary	0	Barren	
Salado	185	Barren	
Base Salado	595	Barren	
Tansil	615	Barren	
Yates	705	Barren	
Seven Rivers	815	Barren	
Capitan	1015	Barren	
Capitan Base	2505	Barren	
Delaware	2710	Oil	
Lower Brushy Canyon	5105	Oil	
1st Bone Spring Lime	5355	Oil	
1st Bone Spring Sand	6585	Oil	
2nd Bone Spring Lime	6815	Oil	
2nd Bone Spring Sand	7325	Oil	
3rd Bone Spring Lime	7735	Oil	

*H2S, water flows, loss of circulation, abnormal pressures, etc.

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2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	175'	13.375"	48	H-40	STC	9.84	22.11	38.33
12.25"	0'	2,685'	9.625"	36	J-55	LTC	1.32	2.29	4.08
8.75"	0'	12,150'	5.5"	17	L-80	BTC	1.65	2.03	1.64
KOP = 6,583' DV Tool = 900' DV Tool = 2,735'				BLM Minimum Safety Factor			1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing	# Sks	Wt. lb/gal	H ₂ O gal/sk	Yld ft ³ /sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	210	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	630	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	220	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter. Two Stage	390	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	220	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	DV Tool = 900ft					
	350	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2" Prod Single Stage	740	11.9	12.89	2.31	n/a	Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	1470	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
5-1/2" Prod Two Stage	530	11.9	12.89	2.31	n/a	1 st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	1470	14.5	5.31	1.2	25	1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV Tool = 2735ft					
	170	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	50	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface Casing	0'	100%
9-5/8" Intermediate	0'	75%
9-5/8" Intermediate Casing Two Stage Option	1 st Stage = 900' / 2 nd Stage = 0'	75%
5-1/2" Production Casing Single Stage Option	900'	25%
5-1/2" Production Casing Two Stage Option	1 st Stage = 2735' / 2 nd Stage = 900'	25%

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP *	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other *		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other *		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
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Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. - Wellhead will be installed by vendor's representatives. - If the welding is performed by a third party, vendors's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. - Vendor representative will install the test plug for the initial BOP test. - Vendor will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. - If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. - Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. - Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

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	Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.
	See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	175'	FW	8.3-8.8	28-34	N/C
175'	2,685'	Saturated Brine	10.0-10.2	28-34	N/C
2,685'	12,150'	Cut Brine	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Totco/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
x	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3549 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

☐ Other, describe

NM OIL CONSERVATION ARTESIA DISTRICT

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
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Phone: (575) 748-1283 Fax: (575) 748-0720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

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, New Mexico 87505

SEP 25 2015

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 3713	Pool Name Avalon; Bone Spring, East
Property Code 302209	Property Name BURTON FLAT DEEP UNIT	Well Number 82H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., L.P.	Elevation 3210.0'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	2	21-S	27-E		2444	SOUTH	200	EAST	EDDY

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
L	2	21-S	27-E		2090	SOUTH	330	WEST	EDDY

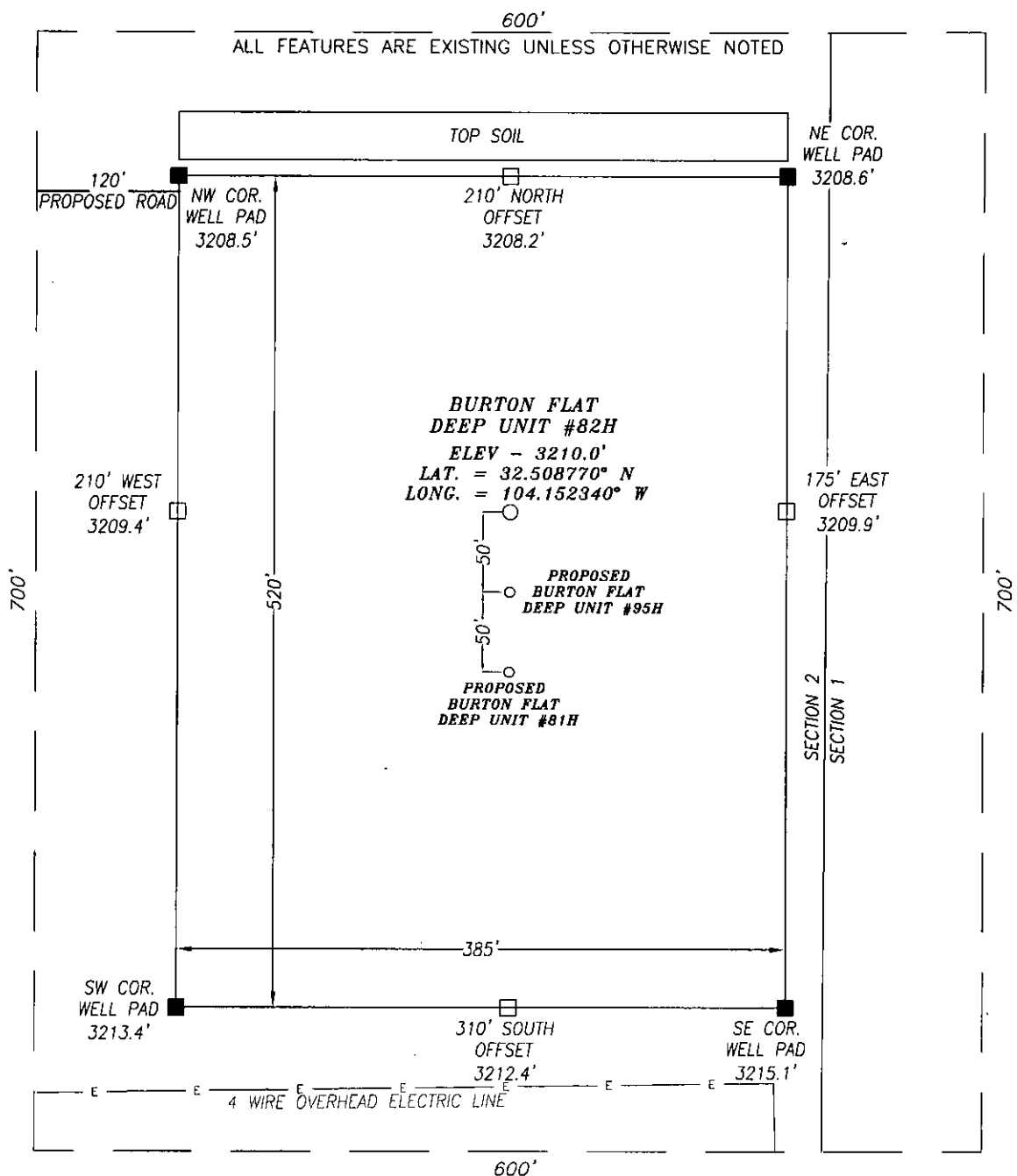
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

NAD 83 PROPOSED BOTTOM HOLE LOCATION Y=548494.8 N X=592350.5 E LAT.=32.507764° N LONG.=104.167851° W Y=549031.7 N X=592025.5 E Y=547717.5 N X=592013.1 E <table border="1"> <tr><td>LOT 4</td><td>LOT 3</td><td>LOT 2</td><td>LOT 1</td></tr> <tr><td>28.75 Ac</td><td>39.47 Ac</td><td>28.56 Ac</td><td>28.47 Ac</td></tr> <tr><td>LOT 5</td><td>LOT 6</td><td>LOT 7</td><td>LOT 8</td></tr> <tr><td>39.90 Ac</td><td>39.89 Ac</td><td>39.92 Ac</td><td>39.95 Ac</td></tr> <tr><td>LOT 12</td><td>LOT 11</td><td>LOT 10</td><td>LOT 9</td></tr> <tr><td>39.94 Ac</td><td>39.92 Ac</td><td>39.94 Ac</td><td>39.97 Ac</td></tr> <tr><td>LOT 13</td><td>LOT 14</td><td>LOT 15</td><td>LOT 16</td></tr> <tr><td>40.00 Ac</td><td>39.97 Ac</td><td>39.98 Ac</td><td>39.99 Ac</td></tr> </table> GRID AZ. = 265°31'38" HORZ. DIST. = 4795.4' B.H. 330' 2090' 2444' 200' NAD 83 SURFACE LOCATION Y=548868.8 N X=597131.3 E LAT.=32.508770° N LONG.=104.152340° W Y=549054.0 N X=597332.3 E Y=547739.8 N X=597325.5 E	LOT 4	LOT 3	LOT 2	LOT 1	28.75 Ac	39.47 Ac	28.56 Ac	28.47 Ac	LOT 5	LOT 6	LOT 7	LOT 8	39.90 Ac	39.89 Ac	39.92 Ac	39.95 Ac	LOT 12	LOT 11	LOT 10	LOT 9	39.94 Ac	39.92 Ac	39.94 Ac	39.97 Ac	LOT 13	LOT 14	LOT 15	LOT 16	40.00 Ac	39.97 Ac	39.98 Ac	39.99 Ac	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Megan Moravec</i> 9/24/2015 Signature Date Megan Moravec, Regulatory Analyst Printed Name Megan.Moravec@dmn.com E-mail Address 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. APRIL 26, 2015 Date of Survey Signature & Seal of Professional Surveyor  <i>Chad Harcrow</i> 9/8/15 Certificate No. CHAD HARCROW 17777 W.O. # 15-1106 DRAWN BY: WN
LOT 4	LOT 3	LOT 2	LOT 1																														
28.75 Ac	39.47 Ac	28.56 Ac	28.47 Ac																														
LOT 5	LOT 6	LOT 7	LOT 8																														
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40.00 Ac	39.97 Ac	39.98 Ac	39.99 Ac																														

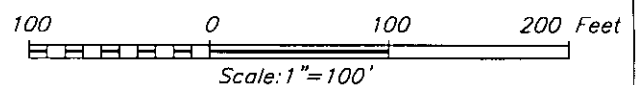
Project Area:

SECTION 2, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF RAINS ROAD AND ILLINOIS CAMP ROAD (CR 206) GO EASTNORTHEAST AND NORTHEAST ON RAINS ROAD FOR APPROX. 3.4 MILES TO A "Y" AND HEAD EAST FOR APPROX. .6 MILES; THEN TURN LEFT (NORTHEAST) AND GO APPROX. .6 MILES TO A TWO TRACK ROAD; THEN TURN RIGHT (SOUTHEASTERLY) AND GO .3 MILES; THEN TURN (RIGHT) AND GO APPROX. .2 MILES; THEN PROPOSED WELL IS APPROX. 415 FEET SOUTHEAST



HARCROW SURVEYING, LLC
2314 W. MAIN ST. ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
e.harcrow@harcrowsurveying.com



DEVON ENERGY PRODUCTION CO., L.P.

BURTON FLAT DEEP UNIT #82H
LOCATED 2444 FEET FROM THE SOUTH LINE
AND 200 FEET FROM THE EAST LINE OF SECTION 2,
TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

SURVEY DATE: 04/26/2015

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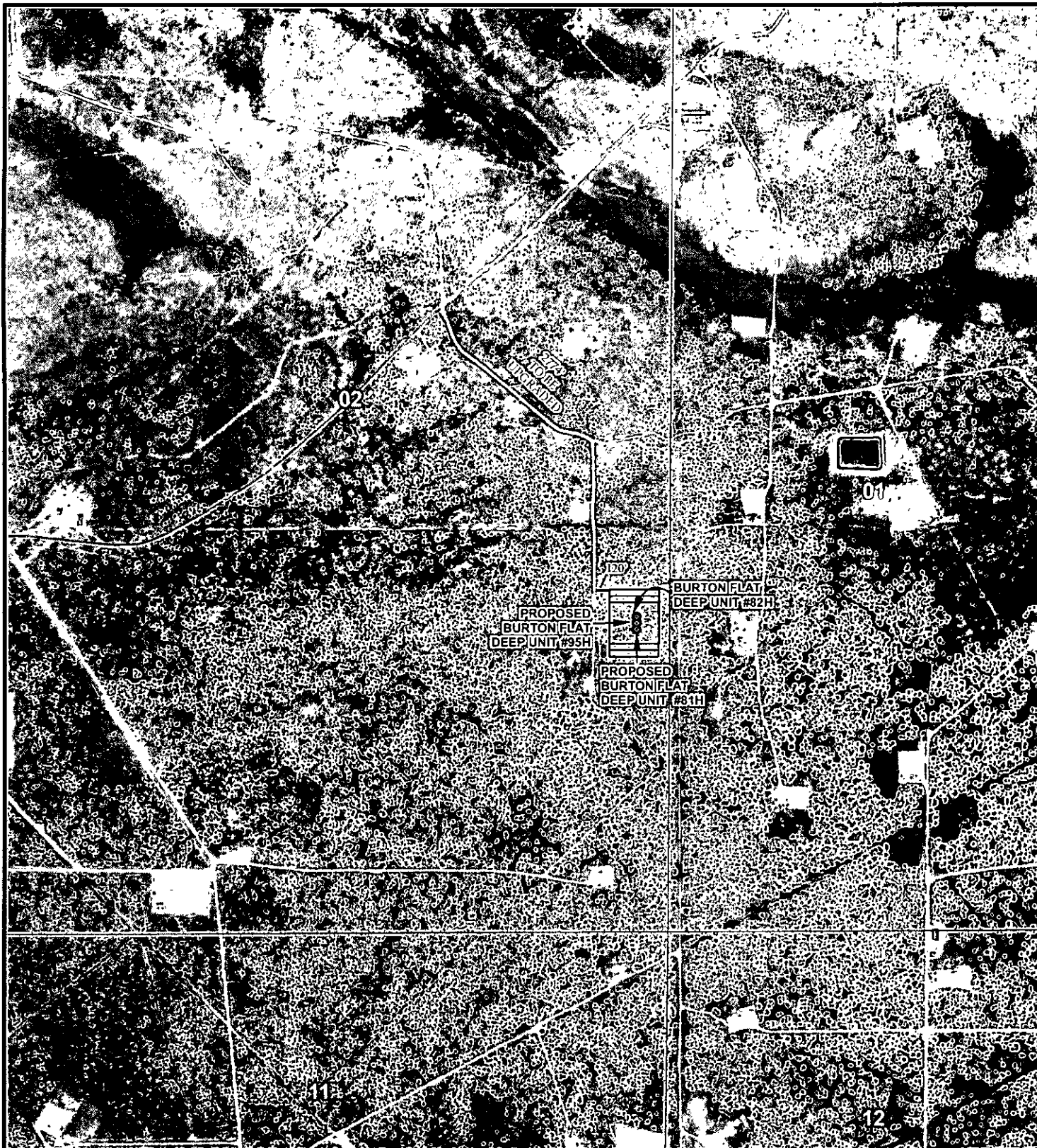
DRAFTING DATE: 5/7/2015

REV.: 9/8/2015

APPROVED BY: CH

DRAWN BY: AF

FILE: 15-1106



LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD
- TWO-TRACK ROAD

BURTON FLAT DEEP UNIT #82H

SEC: 2 TWP: 21 S. RGE: 27 E. ELEV: 3210.0'

STATE: NEW MEXICO COUNTY: EDDY 2444' FSL & 200' FEL

W.O. # 15-1106 LEASE: BURTON FLAT DEEP UNIT SURVEY: N.M.P.M

0 2,500 FEET

0 0.05 0.1 0.2 Miles 1 IN = 1,000 FT

LOCATION MAP

IMAGERY ROAD

A.F

devon

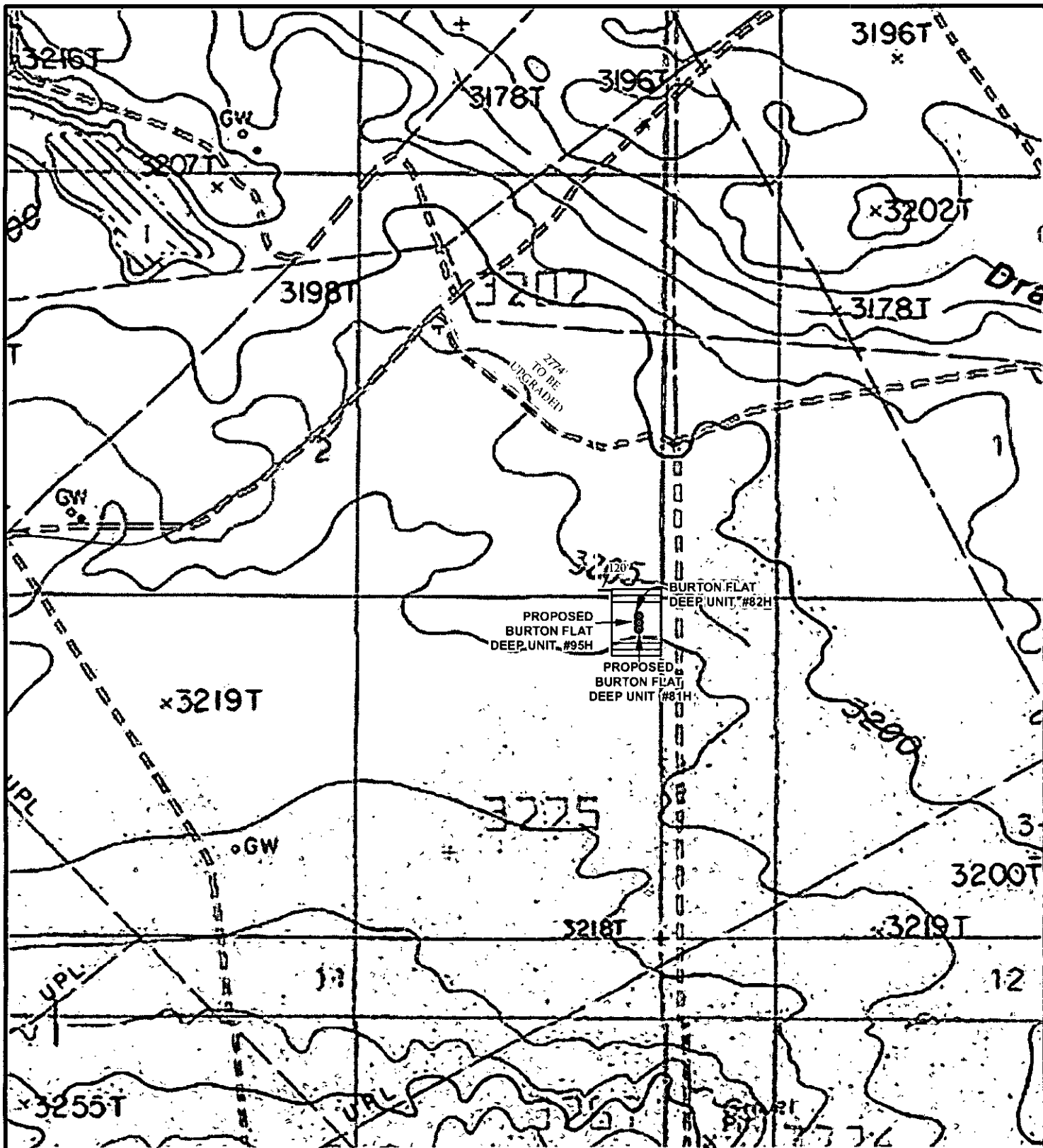
ENERGY PRODUCTION CO. L.P.



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LEGEND

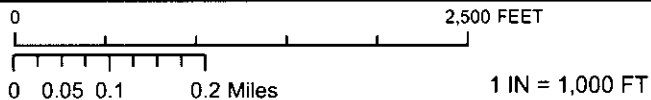
- WELL
- WELLPAD
- EXISTING ROAD
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BURTON FLAT DEEP UNIT #82H

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STATE: NEW MEXICO COUNTY: EDDY 2444' FSL & 200' FEL

W.O. # 15-1106 LEASE: BURTON FLAT DEEP UNIT SURVEY: N.M.P.M



LOCATION MAP

TOPO ROAD

A.F

devon

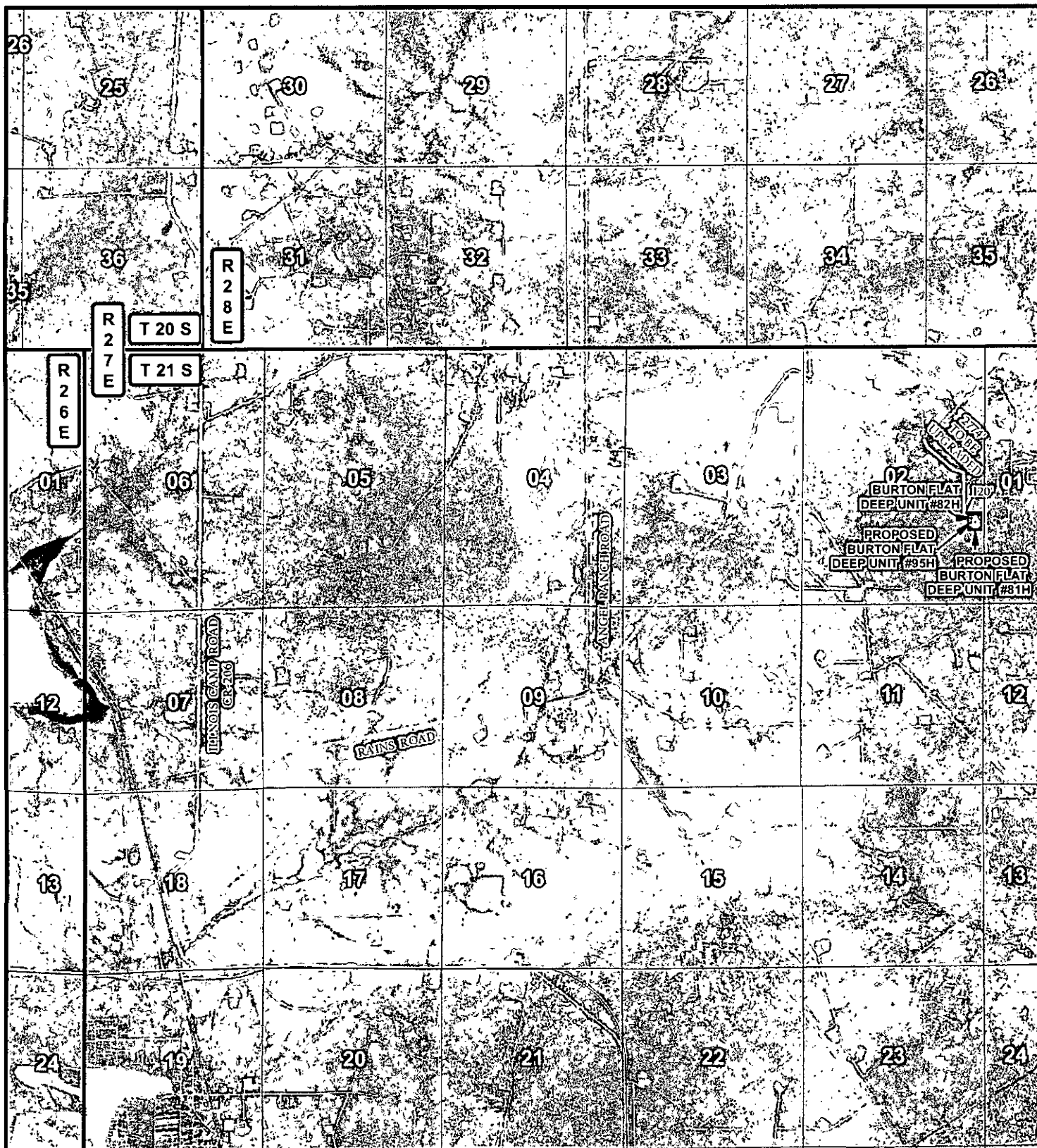
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LEGEND

• WELL

WELLPAD

EXISTING ROAD

PROPOSED ROAD

TWO-TRACK ROAD

BURTON FLAT DEEP UNIT #82H

SEC: 2 TWP: 21 S. RGE: 27 E. ELEV: 3210.0'

STATE: NEW MEXICO COUNTY: EDDY 2444' FSL & 200' FEL

W.O. # 15-1106 LEASE: BURTON FLAT DEEP UNIT SURVEY: N.M.P.M

0 2,500 5,000 7,500 10,000 FEET

0 0.25 0.5 1 Miles

1 IN = 3,750 FT

LOCATION MAP

IMAGERY

AF

devon

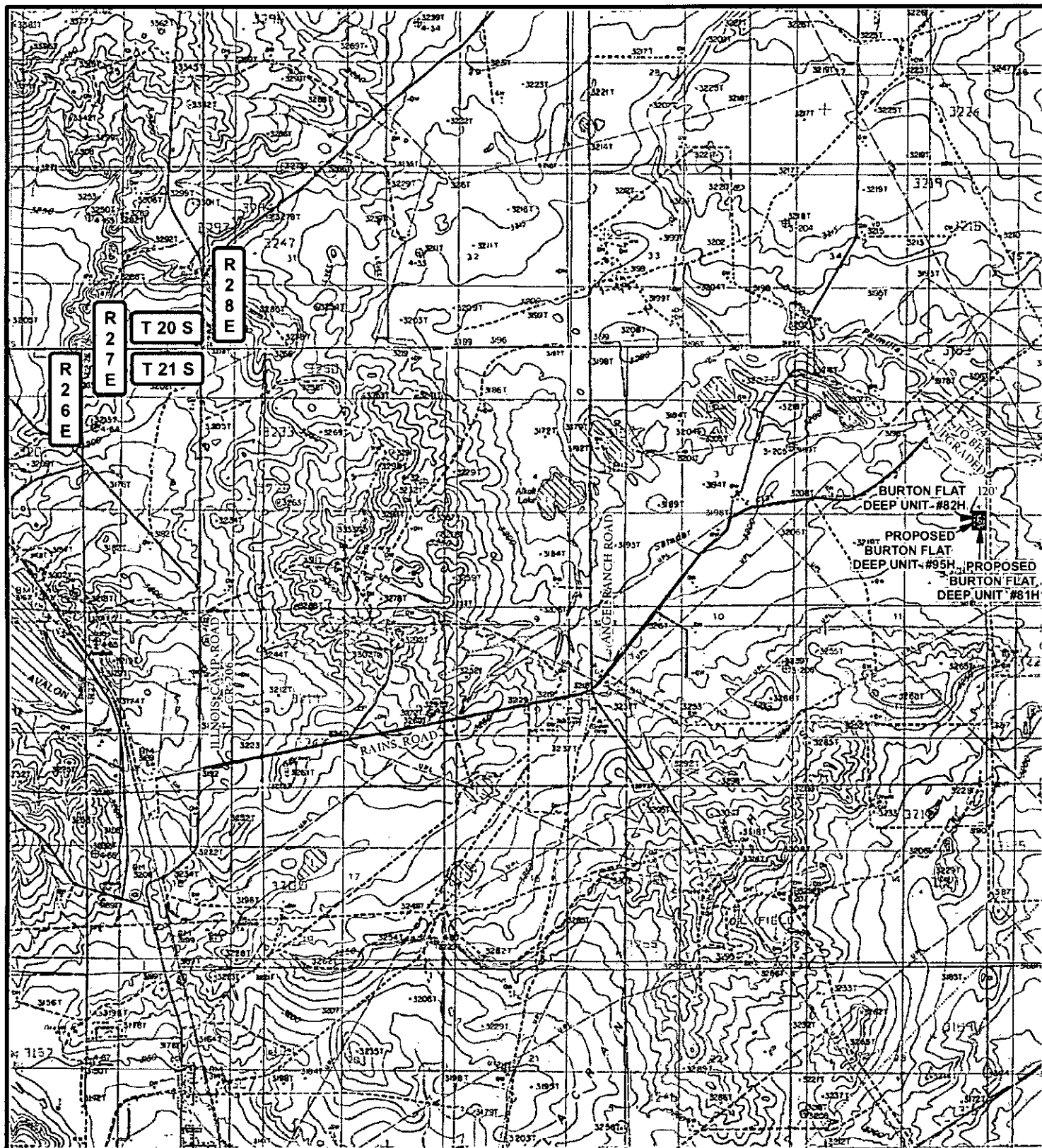
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LEGEND

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BURTON FLAT DEEP UNIT #82H

SEC: 2 TWP: 21 S. RGE: 27 E. ELEV: 3210.0'

STATE: NEW MEXICO COUNTY: EDDY 2444' FSL & 200' FEL

W.O. # 15-1106 LEASE: BURTON FLAT DEEP UNIT SURVEY: N.M.P.M

0 2,500 5,000 7,500 10,000 FEET

0 0.25 0.5 1 Miles

1 IN = 3,750 FT

LOCATION MAP

TOPO

A.F

devon

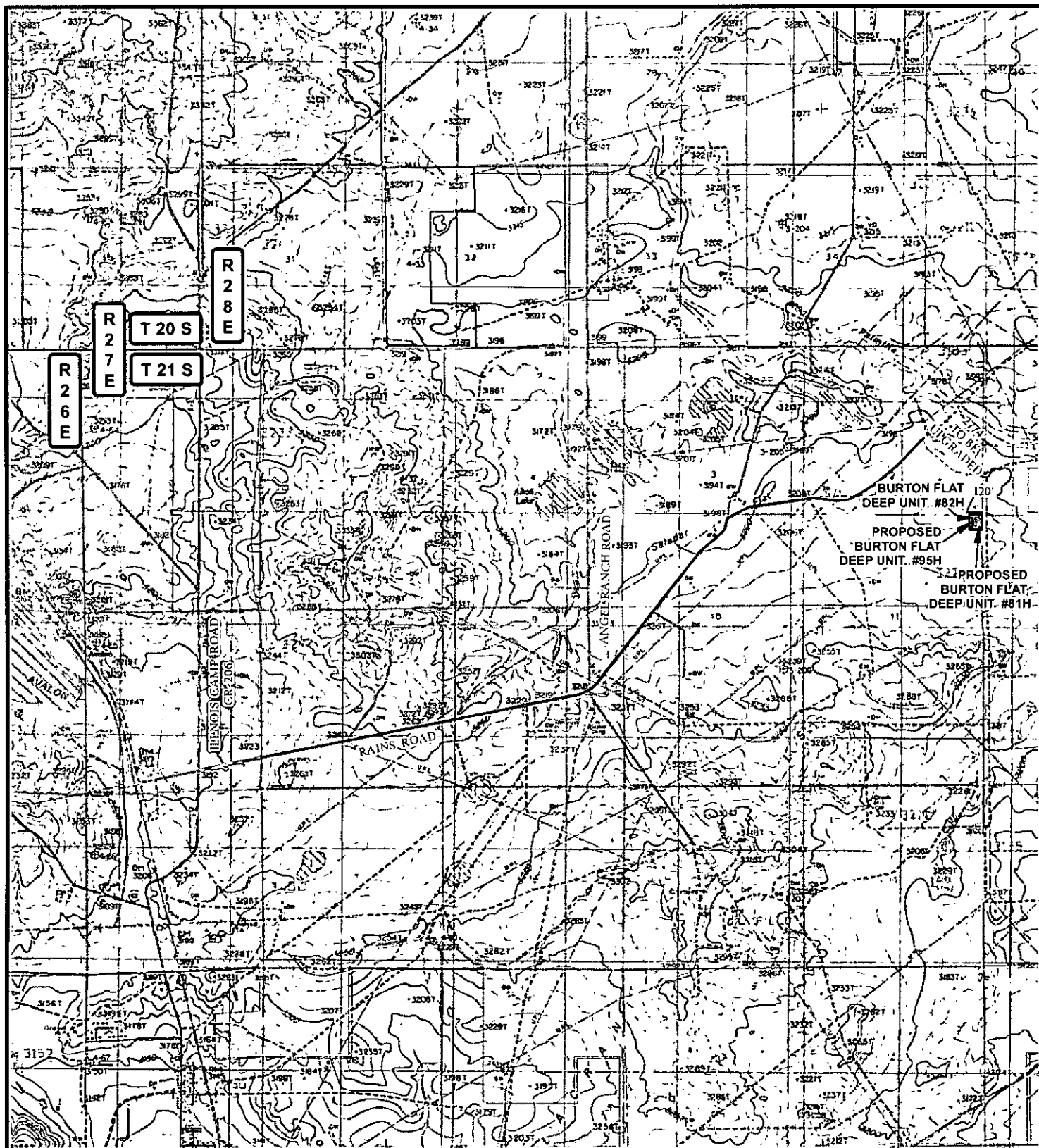
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LEGEND

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BURTON FLAT DEEP UNIT #82H

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STATE: NEW MEXICO COUNTY: EDDY 2444' FSL & 200' FEL			
W.O. # 15-1106 LEASE: BURTON FLAT DEEP UNIT SURVEY: N.M.P.M			
0 2,500 5,000 7,500 10,000 FEET			
0 0.25 0.5 1 Miles			
1 IN = 3,750 FT			

LOCATION MAP

LANDSTATUS

AF

devon

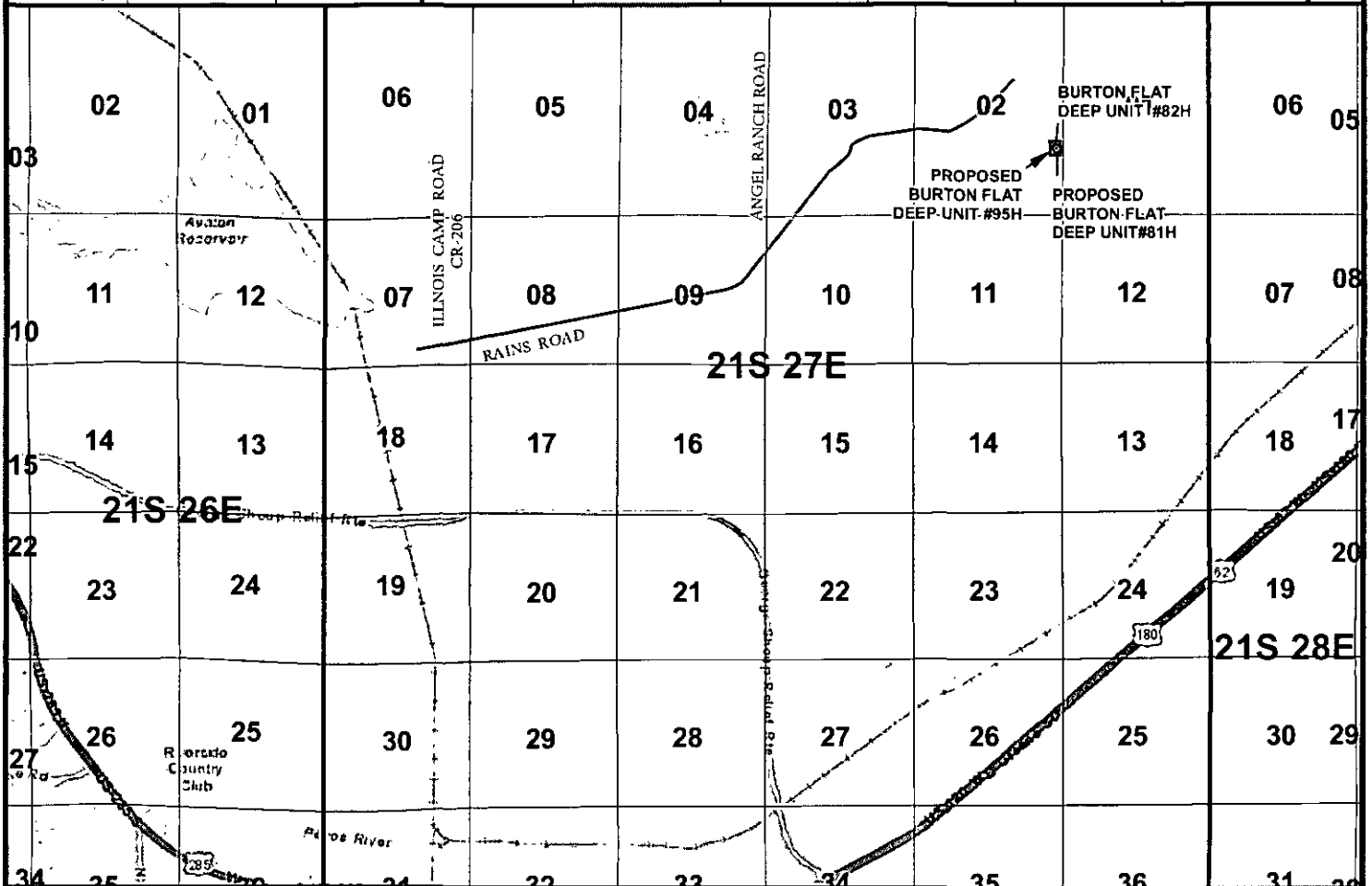
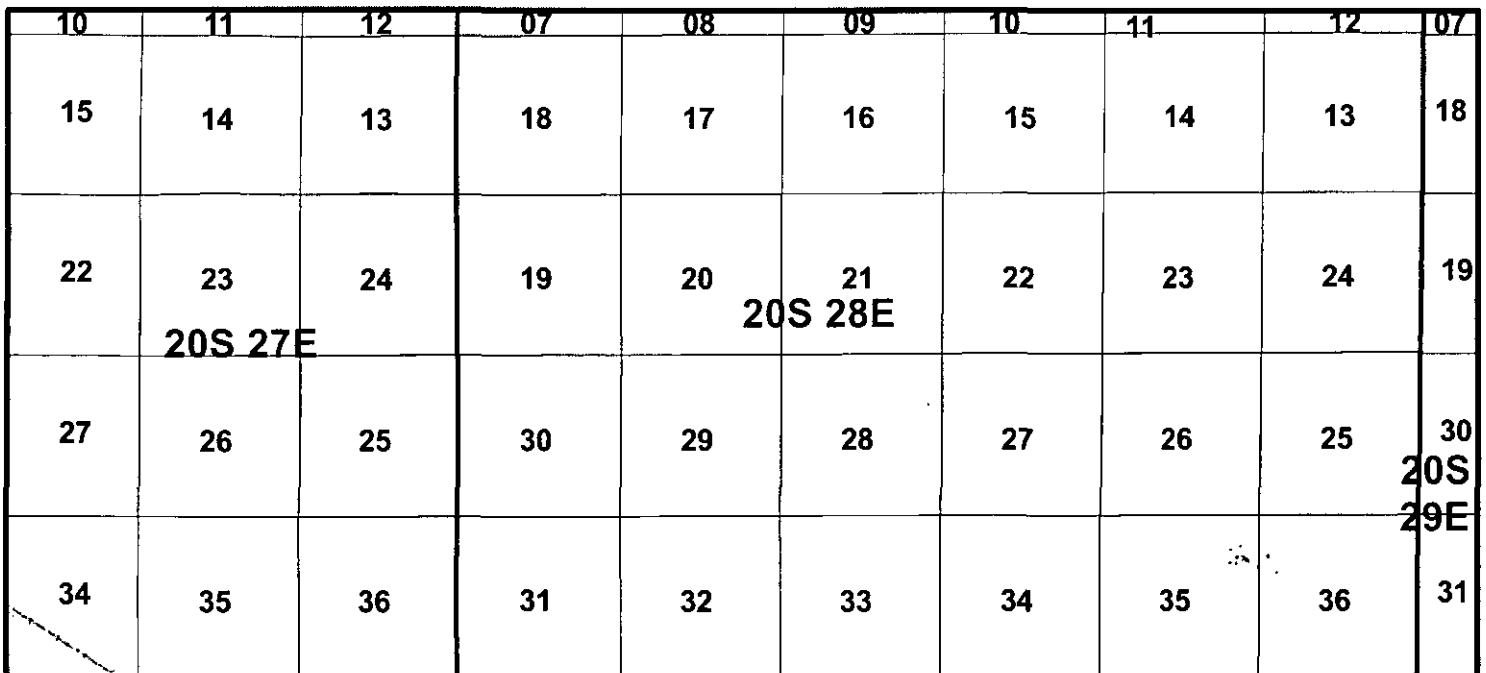
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BURTON FLAT DEEP UNIT #82H

SEC: 2 TWP: 21 S. RGE: 27 E. ELEV: 3210.0'

STATE: NEW MEXICO COUNTY: EDDY 2444' FSL & 200' FEL

W.O. # 15-1106 LEASE: BURTON FLAT DEEP UNIT SURVEY: N.M.P.M

0 2,500 5,000 7,500 10,000 12,500 15,000 FEET

0 0.4 0.8 1.6 Miles

1 IN = 6,000 FT

VICINITY MAP

A.F

devon

ENERGY PRODUCTION CO. L.P.



HARCROW SURVEYING, LLC.
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ORIG: 09/09/2015

PAGE: 8 OF 8



Burton Flat Deep Unit 82H
Eddy Co, NM

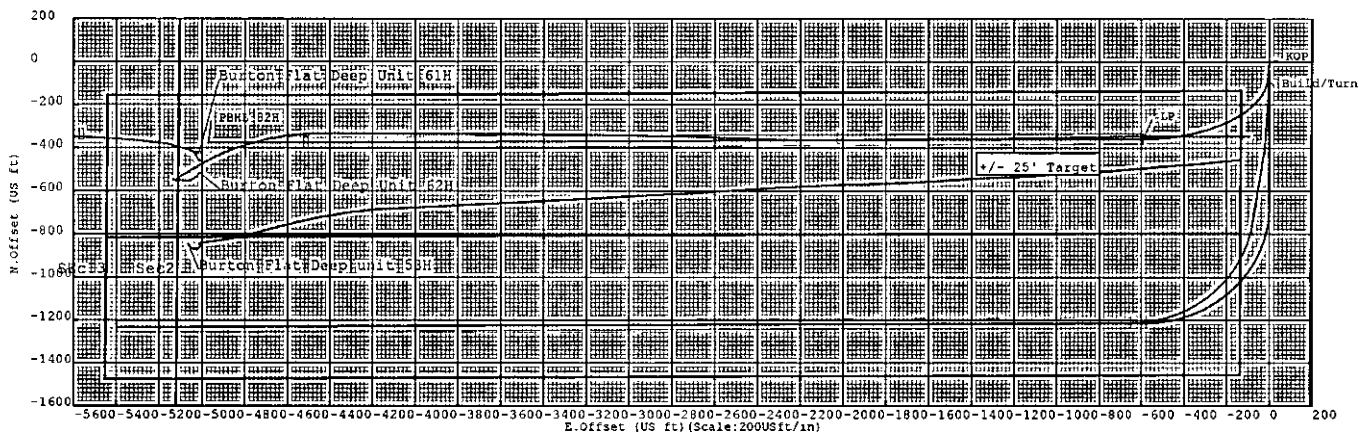
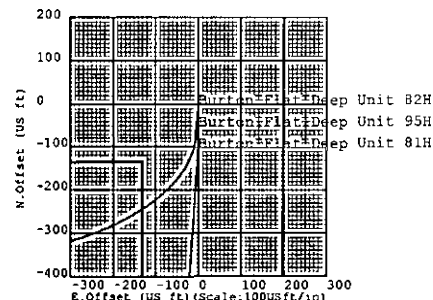


Plan Data for Burton Flat Deep Unit 82H

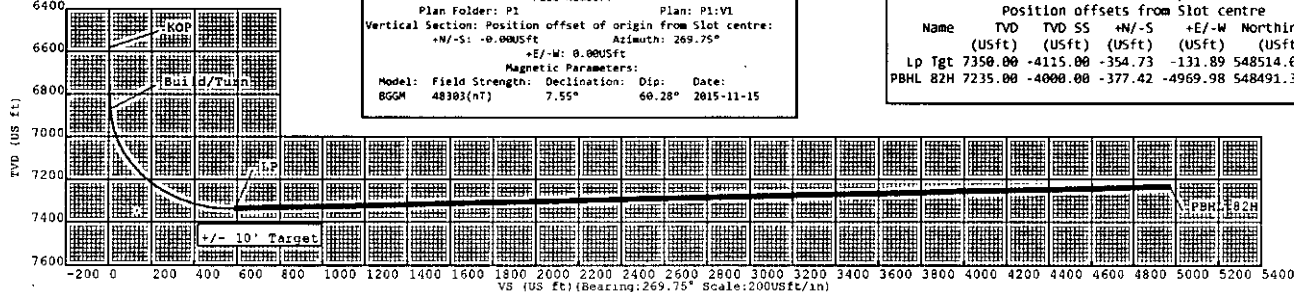
Plan Point Information:									
Dogleg Severity Unit: $^{\circ}/100.00\text{ft}$									
Position offsets from Slot centre									
MD	Inc	AZ	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	($^{\circ}$)	($^{\circ}$)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	-0.00	0.00	548868.80	597131.30	0.00	0.00
6583.00	0.00	0.00	6583.00	-0.00	0.00	548868.80	597131.30	0.00	0.00
6883.00	30.00	185.00	6869.48	-76.47	-6.69	548792.33	597124.61	7.02	10.00
7768.62	91.37	269.74	7339.99	-357.34	-589.63	548511.46	596541.67	591.18	10.00
12150.28	91.37	269.74	7235.00	-377.42	-4969.98	548491.38	592161.32	4971.58	0.00

Plan Data for Burton Flat Deep Unit 82H

Slot: Burton Flat Deep Unit 82H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 548868.80USft Latitude: 32.508770°
+E/-W: 0.00USft Easting: 597131.30USft Longitude: -104.152340°
Elevation Above VRD: 3210.00USft



KB:3235
GL:3210



Plan Data for Burton Flat Deep Unit 82H

Well: Burton Flat Deep Unit 82H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: -0.00USft Azimuth: 269.75°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGGM 48303(NT) 7.55° 60.28° 2015-11-15

Plan Data for Burton Flat Deep Unit 82H

Target Set Information:
Name: Burton Flat Deep Unit 82H
Position offsets from Slot centre
Name TVD SS +N/-S +E/-W Northing Easting
(USft) (USft) (USft) (USft) (USft) (USft)
Lp Tgt 7350.00 -4115.00 -354.73 -131.89 548514.07 596999.41
PBHL 82H 7235.00 -4000.00 -377.42 -4969.98 548491.38 592161.32

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 25 2015

RECEIVED


devon

5D Plan Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Burton Flat Deep Unit 82H, 95H, 81H Pad*
Well Name: *Burton Flat Deep Unit 82H*
Plan: *P1:V1*

14 August 2015





Burton Flat Deep Unit 82H

Field Name: Eddy Co, NM (Nad 83 NME)	Map Units: US ft		Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site:	Units: US ft	North Reference: Grid	Convergence Angle: 0.10	
	Position:	Northing: 548868.80US ft	Latitude: 32° 30' 31.57"	
		Easting: 597131.30US ft	Longitude: -104° 9' 8.42"	
Burton Flat Deep Unit 82H, 95H, 81H Pad	Elevation above MSL: 3210.00 US ft			
	Comment:			
Slot:	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northing: 548868.80US ft	Latitude: 32°30'31.57"	
	+E/-W: 0.00US ft	Easting: 597131.30US ft	Longitude: -104°9'8.42"	
	Slot TVD Reference: Ground Elevation			
Burton Flat Deep Unit 82H	Elevation above MSL: 3210.00US ft			
	Comment:			
Well: Burton Flat Deep Unit 82H	Type: Main well		UWI:	Plan: P1:V1
	File Number:	Comment:		
	Closure Distance: 4984.29US ft		Closure Azimuth: 265.66°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: -0.00US ft		+E/-W: 0.00US ft	Az: 269.75°
	Magnetic Parameters:			
	Model: BGGM	Field Strength: 48303.0nT	Declination: 7.55°	Dip: 60.28°
			Date: 15/Nov/2015	

Drill floor: Plan: P1:V1			
Rig Height (Kelly Bushing): Elevation above MSL:	Inclination: 0.00°	Azimuth: 0.00°	
25.00us ft	3235.00us ft		

Target set: Burton Flat Deep Unit 82H Comment:							
Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USft)	Easting (USft)	Comment
Lp Tgt	Point	7350.00	-354.73	-131.89	548514.07	596999.41	
PBHL 82H	Cuboid	7235.00	-377.42	-4969.98	548491.38	592161.32	

Wellpath created using minimum curvature.

5D Plan Report

Tie Point:										
MD: 0.00USFt	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00USFt	North Offset: -0.00USFt	East Offset: 0.00USFt					

Salient Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	T.Face (°)	Comment
0.00	0.00	0.00	0.00	-0.00	0.00	-0.00	0.00	0.00	0.00	0.00	
6583.00	0.00	0.00	6583.00	-0.00	0.00	-0.00	0.00	0.00	0.00	0.00	KOP
6883.00	30.00	185.00	6869.48	-76.47	-6.69	7.02	10.00	10.00	0.00	185.00	Build/Turn
7768.62	91.37	269.74	7339.99	-357.34	-589.63	591.18	10.00	6.93	9.57	84.75	LP
12150.28	91.37	269.74	7235.00	-377.42	-4969.98	4971.58	0.00	0.00	0.00	0.00	PBHL 82H

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
6500.00	0.00	0.00	6500.00	-0.00	0.00	-0.00	0.00	548868.80	597131.30	
6583.00	0.00	0.00	6583.00	-0.00	0.00	-0.00	0.00	548868.80	597131.30	KOP
6600.00	1.70	185.00	6600.00	-0.25	-0.02	0.02	10.00	548868.55	597131.28	
6700.00	11.70	185.00	6699.19	-11.86	-1.04	1.09	10.00	548856.94	597130.26	
6800.00	21.70	185.00	6794.85	-40.45	-3.54	3.72	10.00	548828.35	597127.76	
6883.00	30.00	185.00	6869.48	-76.47	-6.69	7.02	10.00	548792.33	597124.61	Build/Turn
6900.00	30.20	188.37	6884.19	-84.93	-7.68	8.05	10.00	548783.87	597123.62	
7000.00	32.99	206.77	6969.56	-134.25	-23.65	24.23	10.00	548734.55	597107.65	
7100.00	38.02	221.71	7051.09	-181.67	-56.48	57.27	10.00	548687.13	597074.82	
7200.00	44.54	233.25	7126.31	-225.76	-105.20	106.18	10.00	548643.04	597026.10	
7300.00	51.96	242.26	7192.93	-265.17	-168.31	169.46	10.00	548603.63	596962.99	
7400.00	59.94	249.54	7248.92	-298.71	-243.90	245.20	10.00	548570.09	596887.40	
7500.00	68.26	255.72	7292.59	-325.36	-329.68	331.09	10.00	548543.44	596801.62	
7600.00	76.79	261.20	7322.61	-344.31	-423.03	424.52	10.00	548524.49	596708.27	
7700.00	85.42	266.32	7338.07	-354.99	-521.12	522.66	10.00	548513.81	596610.18	
7768.62	91.37	269.74	7339.99	-357.34	-589.63	591.18	10.00	548511.46	596541.67	LP
7800.00	91.37	269.74	7339.23	-357.49	-621.00	622.55	0.00	548511.31	596510.30	
7900.00	91.37	269.74	7336.84	-357.95	-720.97	722.52	0.00	548510.85	596410.33	
8000.00	91.37	269.74	7334.44	-358.40	-820.94	822.50	0.00	548510.40	596310.36	
8100.00	91.37	269.74	7332.05	-358.86	-920.91	922.47	0.00	548509.94	596210.39	
8200.00	91.37	269.74	7329.65	-359.32	-1020.88	1022.44	0.00	548509.48	596110.42	
8300.00	91.37	269.74	7327.25	-359.78	-1120.85	1122.41	0.00	548509.02	596010.45	
8400.00	91.37	269.74	7324.86	-360.24	-1220.82	1222.38	0.00	548508.56	595910.48	
8500.00	91.37	269.74	7322.46	-360.69	-1320.79	1322.35	0.00	548508.11	595810.51	
8600.00	91.37	269.74	7320.07	-361.15	-1420.76	1422.32	0.00	548507.65	595710.54	
8700.00	91.37	269.74	7317.67	-361.61	-1520.73	1522.29	0.00	548507.19	595610.57	
8800.00	91.37	269.74	7315.27	-362.07	-1620.70	1622.27	0.00	548506.73	595510.60	
8900.00	91.37	269.74	7312.88	-362.53	-1720.67	1722.24	0.00	548506.27	595410.63	
9000.00	91.37	269.74	7310.48	-362.99	-1820.64	1822.21	0.00	548505.81	595310.66	
9100.00	91.37	269.74	7308.09	-363.44	-1920.61	1922.18	0.00	548505.36	595210.69	
9200.00	91.37	269.74	7305.69	-363.90	-2020.58	2022.15	0.00	548504.90	595110.72	
9300.00	91.37	269.74	7303.29	-364.36	-2120.55	2122.12	0.00	548504.44	595010.75	
9400.00	91.37	269.74	7300.90	-364.82	-2220.52	2222.09	0.00	548503.98	594910.78	
9500.00	91.37	269.74	7298.50	-365.28	-2320.49	2322.07	0.00	548503.52	594810.81	
9600.00	91.37	269.74	7296.11	-365.74	-2420.46	2422.04	0.00	548503.06	594710.84	
9700.00	91.37	269.74	7293.71	-366.19	-2520.43	2522.01	0.00	548502.61	594610.87	
9800.00	91.37	269.74	7291.31	-366.65	-2620.40	2621.98	0.00	548502.15	594510.90	
9900.00	91.37	269.74	7288.92	-367.11	-2720.37	2721.95	0.00	548501.69	594410.93	
10000.00	91.37	269.74	7286.52	-367.57	-2820.34	2821.92	0.00	548501.23	594310.96	
10100.00	91.37	269.74	7284.13	-368.03	-2920.31	2921.89	0.00	548500.77	594210.99	
10200.00	91.37	269.74	7281.73	-368.48	-3020.29	3021.86	0.00	548500.32	594111.01	
10300.00	91.37	269.74	7279.33	-368.94	-3120.26	3121.84	0.00	548499.86	594011.04	
10400.00	91.37	269.74	7276.94	-369.40	-3220.23	3221.81	0.00	548499.40	593911.07	
10500.00	91.37	269.74	7274.54	-369.86	-3320.20	3321.78	0.00	548498.94	593811.10	
10600.00	91.37	269.74	7272.15	-370.32	-3420.17	3421.75	0.00	548498.48	593711.13	
10700.00	91.37	269.74	7269.75	-370.78	-3520.14	3521.72	0.00	548498.02	593611.16	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
10800.00	91.37	269.74	7267.35	-371.23	-3620.11	3621.69	0.00	548497.57	593511.19	
10900.00	91.37	269.74	7264.96	-371.69	-3720.08	3721.66	0.00	548497.11	593411.22	
11000.00	91.37	269.74	7262.56	-372.15	-3820.05	3821.63	0.00	548496.65	593311.25	
11100.00	91.37	269.74	7260.17	-372.61	-3920.02	3921.61	0.00	548496.19	593211.28	
11200.00	91.37	269.74	7257.77	-373.07	-4019.99	4021.58	0.00	548495.73	593111.31	
11300.00	91.37	269.74	7255.37	-373.52	-4119.96	4121.55	0.00	548495.28	593011.34	
11400.00	91.37	269.74	7252.98	-373.98	-4219.93	4221.52	0.00	548494.82	592911.37	
11500.00	91.37	269.74	7250.58	-374.44	-4319.90	4321.49	0.00	548494.36	592811.40	
11600.00	91.37	269.74	7248.18	-374.90	-4419.87	4421.46	0.00	548493.90	592711.43	
11700.00	91.37	269.74	7245.79	-375.36	-4519.84	4521.43	0.00	548493.44	592611.46	
11800.00	91.37	269.74	7243.39	-375.82	-4619.81	4621.40	0.00	548492.98	592511.49	
11900.00	91.37	269.74	7241.00	-376.27	-4719.78	4721.38	0.00	548492.53	592411.52	
12000.00	91.37	269.74	7238.60	-376.73	-4819.75	4821.35	0.00	548492.07	592311.55	
12100.00	91.37	269.74	7236.20	-377.19	-4919.72	4921.32	0.00	548491.61	592211.58	
12150.28	91.37	269.74	7235.00	-377.42	-4969.98	4971.58	0.00	548491.38	592161.32	PBHL 82H

**5D Anti-Collision Report****Devon Energy****Field Name:** *Eddy Co, NM (Nad 83 NME)***Site Name:** *Burton Flat Deep Unit 82H, 95H, 81H Pad***Well Name:** *Burton Flat Deep Unit 82H*

14 August 2015





Burton Flat Deep Unit 82H

Field Name: Eddy Co, NM (Nad 83 NME)	Map Units: US ft Company Name: Devon Energy Vertical Reference Datum (VRD): Mean Sea Level Projected Coordinate System: NAD83 / New Mexico East (ftUS) Comment:	
Site: Burton Flat Deep Unit 82H, 95H, 81H Pad	Units: US ft Position: North Reference: Grid Northing: 548868.80US ft Easting: 597131.30US ft Elevation above MSL: 3210.00 US ft Comment:	Convergence Angle: 0.10 Latitude: 32° 30' 31.57" Longitude: -104° 9' 8.42"
Slot: Burton Flat Deep Unit 82H	Position (Relative to Site Centre) +N/-S: 0.00US ft Northing: 548868.80US ft Latitude: 32°30'31.57" +E/-W: 0.00US ft Easting: 597131.30US ft Longitude: -104°9'8.42" Slot TVD Reference: Ground Elevation Elevation above MSL: 3210.00US ft Comment:	
Well: Burton Flat Deep Unit 82H	Type: Main well UWI: Plan: Working Plan File Number: Comment: Closure Distance: 4984.29US ft Closure Azimuth: 265.66° Vertical Section: Position of Origin (Relative to Slot centre) +N/-S: -0.00US ft +E/-W: 0.00US ft Az: 269.75° Magnetic Parameters: Model: BGGM Field Strength: 48303.0nT Declination: 7.55° Dip: 60.28° Date: 15/Nov/2015	

Drill floor: Plane Working Plan		
Rig Height (Kelly Bushing): 25.00us ft	Elevation above MSL: 3235.00us ft	Inclination: 0.00° Azimuth: 0.00°

Collision / Uncertainty Analysis				
Primary Well	Start MD (USFt)	End MD (USFt)	Collision Risk Interval	No. of Std. Deviations in Error Computation
Burton Flat Deep Unit 82H (p)	0.00	12150.28	100.00	2

Secondary Well Names:
Burton Flat Deep unit 53H (s) Burton Flat Deep Unit 95H (p) Burton Flat Deep Unit 81H (p) Burton Flat Deep Unit 61H (s) Burton Flat Deep Unit 62H (s) Burton Flat Deep Unit 62H Pilot (s)

SD Anti-Collision Report

Anti-Collision Report Terminology

S.Minor, S.Major: Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.

PHI: Angle between high-side vector and semi-minor axis

TVD Spread: Total TVD range of the ellipsoid of uncertainty at the current location.

ES: Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr.

T.Face to Sec: Angle between the HI-Side vector of the primary well at the current location and line of closest approach between the two wells.

AC Filter Info: No filter has been applied.

Separation factors calculated using Pedal Curve (Independent Uncertainty). Surface Uncertainty (S.U.) Not Applied. Wellpath created using minimum curvature.

Anti-Collision Summary (TVD relative to Kelly Bushing)

Secondary Well Name	Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	ES (US ft)	CC (US ft)	SF	Risk
Burton Flat Deep Unit 62H (s)	12150.28	7235.00	7349.95	60.37	171.36	1.54	SF(Lo)
Burton Flat Deep Unit 62H Pilot (s)	12150.28	7235.00	7239.85	118.06	232.39	2.03	
Burton Flat Deep Unit 95H (p)	4531.84	4531.84	4532.34	29.46	50.14	2.42	
Burton Flat Deep Unit 81H (p)	12150.28	7235.00	12485.12	583.62	853.51	3.16	
Burton Flat Deep unit 53H (s)	6710.16	6709.12	11331.00	323.12	461.58	3.33	
Burton Flat Deep Unit 61H (s)	12150.28	7235.00	7193.98	100.39	139.36	3.58	

Primary Well: Burton Flat Deep Unit 82H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.00	180.23	0.00	0.00	0.00	Burton Flat Deep Unit 95H (p)	49.43	50.00	88.07	
100.00	100.00	180.23	0.11	0.11	4.60	Burton Flat Deep Unit 95H (p)	49.21	50.00	63.33	
200.00	200.00	180.23	0.34	0.34	4.62	Burton Flat Deep Unit 95H (p)	48.76	50.00	40.35	
300.00	300.00	180.23	0.56	0.56	4.65	Burton Flat Deep Unit 95H (p)	48.31	50.00	29.61	
400.00	400.00	180.23	0.79	0.79	4.69	Burton Flat Deep Unit 95H (p)	47.86	50.00	23.38	
500.00	500.00	180.23	1.01	1.01	4.75	Burton Flat Deep Unit 95H (p)	47.41	50.00	19.32	
600.00	600.00	180.23	1.24	1.24	4.81	Burton Flat Deep Unit 95H (p)	46.96	50.00	16.46	
700.00	700.00	180.23	1.46	1.46	4.88	Burton Flat Deep Unit 95H (p)	46.51	50.00	14.34	
800.00	800.00	180.23	1.69	1.69	4.97	Burton Flat Deep Unit 95H (p)	46.06	50.00	12.70	
900.00	900.00	180.23	1.91	1.91	5.06	Burton Flat Deep Unit 95H (p)	45.61	50.00	11.40	
1000.00	1000.00	180.23	2.14	2.14	5.16	Burton Flat Deep Unit 95H (p)	45.16	50.00	10.34	
1100.00	1100.00	180.23	2.36	2.36	5.26	Burton Flat Deep Unit 95H (p)	44.72	50.00	9.46	
1200.00	1200.00	180.23	2.59	2.59	5.37	Burton Flat Deep Unit 95H (p)	44.27	50.00	8.72	
1300.00	1300.00	180.23	2.81	2.81	5.49	Burton Flat Deep Unit 95H (p)	43.82	50.00	8.08	
1400.00	1400.00	180.23	3.03	3.03	5.62	Burton Flat Deep Unit 95H (p)	43.37	50.00	7.54	

5D Anti-Collision Report

Primary Well: Burton Flat Deep Unit 82H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
1500.00	1500.00	180.23	3.26	3.26	5.75	Burton Flat Deep Unit 95H (p)	42.92	50.00	7.06	
1600.00	1600.00	180.23	3.48	3.48	5.88	Burton Flat Deep Unit 95H (p)	42.47	50.00	6.64	
1700.00	1700.00	180.23	3.71	3.71	6.02	Burton Flat Deep Unit 95H (p)	42.02	50.00	6.26	
1800.00	1800.00	180.23	3.93	3.93	6.16	Burton Flat Deep Unit 95H (p)	41.57	50.00	5.93	
1900.00	1900.00	180.23	4.16	4.16	6.31	Burton Flat Deep Unit 95H (p)	41.12	50.00	5.63	
2000.00	2000.00	180.23	4.38	4.38	6.46	Burton Flat Deep Unit 95H (p)	40.67	50.00	5.36	
2100.00	2100.00	180.23	4.61	4.61	6.61	Burton Flat Deep Unit 95H (p)	40.22	50.00	5.11	
2200.00	2200.00	180.23	4.83	4.83	6.77	Burton Flat Deep Unit 95H (p)	39.77	50.00	4.89	
2300.00	2300.00	180.23	5.06	5.06	6.93	Burton Flat Deep Unit 95H (p)	39.32	50.00	4.68	
2400.00	2400.00	180.23	5.28	5.28	7.10	Burton Flat Deep Unit 95H (p)	38.87	50.00	4.49	
2500.00	2500.00	180.23	5.51	5.51	7.26	Burton Flat Deep Unit 95H (p)	38.42	50.00	4.32	
2600.00	2600.00	180.23	5.73	5.73	7.43	Burton Flat Deep Unit 95H (p)	37.97	50.00	4.16	
2700.00	2700.00	180.23	5.96	5.96	7.61	Burton Flat Deep Unit 95H (p)	37.52	50.00	4.01	
2800.00	2800.00	180.23	6.18	6.18	7.78	Burton Flat Deep Unit 95H (p)	37.07	50.00	3.87	
2900.00	2900.00	180.23	6.41	6.41	7.96	Burton Flat Deep Unit 95H (p)	36.62	50.00	3.74	
3000.00	3000.00	180.23	6.63	6.63	8.14	Burton Flat Deep Unit 95H (p)	36.17	50.00	3.62	
3100.00	3100.00	180.23	6.86	6.86	8.33	Burton Flat Deep Unit 95H (p)	35.72	50.00	3.50	
3200.00	3200.00	180.23	7.08	7.08	8.51	Burton Flat Deep Unit 95H (p)	35.27	50.00	3.40	
3300.00	3300.00	180.23	7.31	7.31	8.70	Burton Flat Deep Unit 95H (p)	34.82	50.00	3.29	
3400.00	3400.00	180.23	7.53	7.53	8.90	Burton Flat Deep Unit 95H (p)	34.38	50.00	3.20	
3500.00	3500.00	180.23	7.76	7.76	9.09	Burton Flat Deep Unit 95H (p)	33.93	50.00	3.11	
3600.00	3600.00	180.23	7.98	7.98	9.29	Burton Flat Deep Unit 95H (p)	33.48	50.00	3.03	
3700.00	3700.00	180.23	8.20	8.20	9.49	Burton Flat Deep Unit 95H (p)	33.03	50.00	2.95	
3800.00	3800.00	180.23	8.43	8.43	9.69	Burton Flat Deep Unit 95H (p)	32.58	50.00	2.87	
3900.00	3900.00	180.23	8.65	8.65	9.90	Burton Flat Deep Unit 95H (p)	32.13	50.00	2.80	
4000.00	4000.00	180.23	8.88	8.88	10.11	Burton Flat Deep Unit 95H (p)	31.68	50.00	2.73	

SD Anti-Collision Report

Primary Well: Burton Flat Deep Unit 82H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
4100.00	4100.00	180.23	9.10	9.10	10.33	Burton Flat Deep Unit 95H (p)	31.23	50.00	2.66	
4200.00	4200.00	180.23	9.33	9.33	10.54	Burton Flat Deep Unit 95H (p)	30.78	50.00	2.60	
4300.00	4300.00	180.23	9.55	9.55	10.76	Burton Flat Deep Unit 95H (p)	30.33	50.00	2.54	
4400.00	4400.00	180.23	9.78	9.78	10.99	Burton Flat Deep Unit 95H (p)	29.88	50.00	2.48	
4500.00	4500.00	180.23	10.00	10.00	11.21	Burton Flat Deep Unit 95H (p)	29.43	50.00	2.43	
4600.00	4600.00	180.22	10.23	10.23	11.44	Burton Flat Deep Unit 95H (p)	30.65	51.61	2.46	
4700.00	4700.00	180.20	10.45	10.45	11.68	Burton Flat Deep Unit 95H (p)	35.34	56.65	2.66	
4800.00	4800.00	180.18	10.68	10.68	11.91	Burton Flat Deep Unit 95H (p)	43.47	65.09	3.01	
4900.00	4900.00	180.15	10.90	10.90	12.16	Burton Flat Deep Unit 95H (p)	53.54	75.58	3.43	
5000.00	5000.00	180.13	11.13	11.13	12.40	Burton Flat Deep Unit 95H (p)	63.66	86.08	3.84	
5100.00	5100.00	180.12	11.35	11.35	12.65	Burton Flat Deep Unit 95H (p)	73.75	96.59	4.23	
5200.00	5200.00	180.11	11.58	11.58	12.90	Burton Flat Deep Unit 95H (p)	83.89	107.09	4.62	
5300.00	5300.00	180.10	11.80	11.80	13.16	Burton Flat Deep Unit 95H (p)	93.97	117.60	4.98	
5400.00	5400.00	180.09	12.03	12.03	13.42	Burton Flat Deep Unit 95H (p)	104.06	128.10	5.33	
5500.00	5500.00	180.08	12.25	12.25	13.69	Burton Flat Deep Unit 95H (p)	114.16	138.61	5.67	
5600.00	5600.00	180.08	12.48	12.48	13.96	Burton Flat Deep Unit 95H (p)	124.25	149.11	6.00	
5700.00	5700.00	180.07	12.70	12.70	14.23	Burton Flat Deep Unit 95H (p)	134.34	159.62	6.32	
5800.00	5800.00	180.07	12.93	12.93	14.51	Burton Flat Deep Unit 95H (p)	144.44	170.12	6.62	
5900.00	5900.00	180.06	13.15	13.15	14.79	Burton Flat Deep Unit 95H (p)	154.53	180.63	6.92	
6000.00	6000.00	180.06	13.37	13.37	15.08	Burton Flat Deep Unit 95H (p)	164.61	191.13	7.21	
6100.00	6100.00	180.06	13.60	13.60	15.37	Burton Flat Deep Unit 95H (p)	174.70	201.64	7.49	
6200.00	6200.00	196.36	13.82	13.82	15.66	Burton Flat Deep unit 53H (s)	556.92	661.09	6.35	
6300.00	6300.00	196.36	14.05	14.05	15.97	Burton Flat Deep unit 53H (s)	481.77	595.53	5.23	
6400.00	6400.00	196.36	14.27	14.27	16.27	Burton Flat Deep unit 53H (s)	416.88	540.62	4.37	
6500.00	6500.00	196.36	14.50	14.50	16.58	Burton Flat Deep unit 53H (s)	367.59	499.89	3.78	
6600.00	6600.00	11.41	14.72	14.71	16.90	Burton Flat Deep unit 53H (s)	338.53	476.72	3.45	

5D Anti-Collision Report

Primary Well: Burton Flat Deep Unit 82H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
6700.00	6699.19	11.69	14.88	14.67	17.20	Burton Flat Deep unit 53H (s)	323.99	462.77	3.33	
6800.00	6794.85	11.89	15.04	14.34	17.47	Burton Flat Deep unit 53H (s)	320.34	453.13	3.41	
6900.00	6884.19	9.04	15.24	13.86	17.67	Burton Flat Deep unit 53H (s)	326.88	448.56	3.69	
7000.00	6969.56	354.13	15.52	13.80	17.95	Burton Flat Deep unit 53H (s)	350.78	456.88	4.31	
7100.00	7051.09	293.96	15.85	13.52	18.21	Burton Flat Deep Unit 95H (p)	103.88	134.75	4.37	
7200.00	7126.31	269.69	16.24	13.05	18.47	Burton Flat Deep Unit 95H (p)	111.10	142.85	4.50	
7300.00	7192.93	253.19	16.74	12.43	18.73	Burton Flat Deep Unit 95H (p)	154.71	187.39	5.73	
7400.00	7248.92	244.83	17.40	11.74	19.02	Burton Flat Deep Unit 95H (p)	222.30	255.73	7.65	
7500.00	7292.59	182.71	18.25	11.07	19.37	Burton Flat Deep Unit 62H (s)	338.45	385.27	8.23	
7600.00	7322.61	179.72	19.32	10.54	19.81	Burton Flat Deep Unit 62H (s)	305.02	350.68	7.68	
7700.00	7338.07	178.00	20.58	10.29	20.33	Burton Flat Deep Unit 62H (s)	284.84	330.23	7.27	
7800.00	7339.23	177.83	22.10	10.43	20.93	Burton Flat Deep Unit 62H (s)	278.86	324.04	7.17	
7900.00	7336.84	177.93	24.01	10.77	21.61	Burton Flat Deep Unit 62H (s)	277.85	322.63	7.20	
8000.00	7334.44	178.22	26.07	11.15	22.37	Burton Flat Deep Unit 62H (s)	277.29	321.66	7.25	
8100.00	7332.05	178.35	28.25	11.56	23.19	Burton Flat Deep Unit 62H (s)	277.30	321.34	7.30	
8200.00	7329.65	178.46	30.52	12.00	24.08	Burton Flat Deep Unit 62H (s)	277.66	321.42	7.34	
8300.00	7327.25	178.70	32.87	12.48	25.02	Burton Flat Deep Unit 62H (s)	278.32	321.87	7.39	
8400.00	7324.86	179.05	35.27	12.97	26.00	Burton Flat Deep Unit 62H (s)	278.28	321.56	7.43	
8500.00	7322.46	179.24	37.72	13.49	27.04	Burton Flat Deep Unit 62H (s)	277.71	320.82	7.44	
8600.00	7320.07	179.21	40.21	14.02	28.11	Burton Flat Deep Unit 62H (s)	276.92	319.86	7.45	
8700.00	7317.67	179.14	42.74	14.58	29.21	Burton Flat Deep Unit 62H (s)	275.99	318.80	7.45	
8800.00	7315.27	179.18	45.29	15.15	30.35	Burton Flat Deep Unit 62H (s)	275.83	318.54	7.46	
8900.00	7312.88	179.43	47.86	15.73	31.51	Burton Flat Deep Unit 62H (s)	276.85	319.48	7.49	
9000.00	7310.48	179.69	50.46	16.32	32.70	Burton Flat Deep Unit 62H (s)	278.35	320.88	7.55	
9100.00	7308.09	179.89	53.06	16.93	33.91	Burton Flat Deep Unit 62H (s)	279.86	322.30	7.59	
9200.00	7305.69	180.01	55.69	17.54	35.14	Burton Flat Deep Unit 62H (s)	279.85	322.20	7.61	

5D Anti-Collision Report

Primary Well: Burton Flat Deep Unit 82H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
9300.00	7303.29	269.86	58.32	18.17	36.38	Burton Flat Deep Unit 81H (p)	738.65	854.15	7.40	
9400.00	7300.90	269.85	60.97	18.80	37.64	Burton Flat Deep Unit 81H (p)	733.36	854.13	7.07	
9500.00	7298.50	269.83	63.62	19.44	38.92	Burton Flat Deep Unit 81H (p)	728.03	854.10	6.77	
9600.00	7296.11	269.82	66.28	20.08	40.21	Burton Flat Deep Unit 81H (p)	722.65	854.08	6.50	
9700.00	7293.71	269.81	68.95	20.74	41.51	Burton Flat Deep Unit 81H (p)	717.26	854.06	6.24	
9800.00	7291.31	269.79	71.63	21.39	42.82	Burton Flat Deep Unit 81H (p)	711.87	854.03	6.01	
9900.00	7288.92	269.78	74.31	22.05	44.14	Burton Flat Deep Unit 81H (p)	706.47	854.01	5.79	
10000.00	7286.52	269.76	77.00	22.72	45.47	Burton Flat Deep Unit 81H (p)	701.05	853.99	5.58	
10100.00	7284.13	269.75	79.69	23.39	46.81	Burton Flat Deep Unit 81H (p)	695.63	853.96	5.39	
10200.00	7281.73	269.73	82.38	24.06	48.16	Burton Flat Deep Unit 81H (p)	690.21	853.94	5.22	
10300.00	7279.33	269.72	85.08	24.74	49.51	Burton Flat Deep Unit 81H (p)	684.78	853.92	5.05	
10400.00	7276.94	269.70	87.79	25.42	50.87	Burton Flat Deep Unit 81H (p)	679.34	853.90	4.89	
10500.00	7274.54	269.69	90.49	26.10	52.24	Burton Flat Deep Unit 81H (p)	673.90	853.87	4.74	
10600.00	7272.15	269.67	93.20	26.79	53.61	Burton Flat Deep Unit 81H (p)	668.45	853.85	4.61	
10700.00	7269.75	269.66	95.91	27.48	54.98	Burton Flat Deep Unit 81H (p)	663.00	853.83	4.47	
10800.00	7267.35	269.64	98.63	28.17	56.36	Burton Flat Deep Unit 81H (p)	657.55	853.81	4.35	
10900.00	7264.96	269.63	101.34	28.86	57.74	Burton Flat Deep Unit 81H (p)	652.09	853.78	4.23	
11000.00	7262.56	269.61	104.06	29.55	59.13	Burton Flat Deep Unit 81H (p)	646.63	853.76	4.12	
11100.00	7260.17	269.60	106.78	30.25	60.52	Burton Flat Deep Unit 81H (p)	641.16	853.74	4.02	
11200.00	7257.77	269.58	109.50	30.95	61.92	Burton Flat Deep Unit 81H (p)	635.69	853.72	3.92	
11300.00	7255.37	269.57	112.22	31.65	63.32	Burton Flat Deep Unit 81H (p)	630.22	853.70	3.82	
11400.00	7252.98	269.55	114.95	32.35	64.72	Burton Flat Deep Unit 81H (p)	624.75	853.67	3.73	
11500.00	7250.58	269.54	117.67	33.05	66.12	Burton Flat Deep Unit 81H (p)	619.27	853.65	3.64	
11600.00	7248.18	269.52	120.40	33.76	67.53	Burton Flat Deep Unit 81H (p)	613.79	853.63	3.56	
11700.00	7245.79	269.51	123.13	34.46	68.94	Burton Flat Deep Unit 81H (p)	608.31	853.61	3.48	
11800.00	7243.39	269.49	125.86	35.17	70.35	Burton Flat Deep Unit 81H (p)	602.83	853.59	3.40	

SD Anti-Collision Report

Primary Well: Burton Flat Deep Unit 82H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
11900.00	7241.00	269.48	128.59	35.87	71.76	Burton Flat Deep Unit 81H (p)	597.35	853.56	3.33	
12000.00	7238.60	269.46	131.32	36.58	73.18	Burton Flat Deep Unit 81H (p)	591.86	853.54	3.26	
12100.00	7236.20	220.59	134.05	37.29	74.60	Burton Flat Deep Unit 62H (s)	105.91	195.63	2.18	
12150.28	7235.00	232.80	135.43	37.65	75.31	Burton Flat Deep Unit 62H (s)	60.37	171.36	1.54	SF(Lo)

Secondary Well: Burton Flat Deep unit 53H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
PRD MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	-0.17	3.83	260.52	0.01	0.01	0.10	5134.85	5135.42	8983.37	
100.00	95.69	99.69	260.52	0.13	0.13	2.62	5134.66	5135.47	6361.91	
200.00	192.61	196.61	260.53	0.39	0.39	2.63	5134.30	5135.58	3998.86	
300.00	300.66	304.66	260.53	0.66	0.66	2.63	5133.87	5135.64	2886.06	
400.00	396.14	400.14	260.53	0.79	0.79	2.63	5133.54	5135.68	2403.15	
500.00	506.91	510.91	260.53	0.91	0.91	2.64	5133.12	5135.60	2066.74	
600.00	584.59	588.59	260.53	1.06	1.06	2.65	5132.83	5135.68	1797.18	
700.00	712.09	716.09	260.53	1.26	1.26	2.65	5132.42	5135.70	1565.61	
800.00	795.84	799.84	260.53	1.36	1.36	2.66	5132.03	5135.63	1426.10	
900.00	909.28	913.28	260.53	1.52	1.52	2.67	5131.57	5135.55	1288.76	
1000.00	1005.33	1009.33	260.52	1.68	1.68	2.68	5131.06	5135.43	1174.32	
1100.00	1120.74	1124.75	260.51	1.89	1.89	2.69	5130.28	5135.10	1066.39	
1200.00	1214.54	1218.54	260.51	2.08	2.08	2.70	5129.58	5134.81	982.19	
1300.00	1330.43	1334.45	260.50	2.33	2.33	2.71	5128.56	5134.26	900.83	
1400.00	1418.99	1423.01	260.50	2.53	2.53	2.72	5127.67	5133.79	838.28	
1500.00	1515.27	1519.28	260.49	2.76	2.76	2.73	5126.91	5133.48	781.35	
1600.00	6661.93	11331.00	196.36	132.70	36.12	72.30	5042.57	5083.97	122.78	
1700.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4942.87	4984.42	119.96	
1800.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4843.18	4884.88	117.14	
1900.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4743.50	4785.36	114.32	
2000.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4643.84	4685.86	111.52	
2100.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4544.19	4586.38	108.72	
2200.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4444.57	4486.92	105.93	
2300.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4344.96	4387.49	103.15	
2400.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4245.37	4288.09	100.38	
2500.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4145.81	4188.71	97.62	
2600.00	6661.93	11331.00	196.36	132.70	36.12	72.30	4046.27	4089.37	94.87	
2700.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3946.75	3990.06	92.14	
2800.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3847.26	3890.78	89.41	
2900.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3747.81	3791.54	86.70	
3000.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3648.39	3692.34	84.00	
3100.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3549.00	3593.19	81.32	
3200.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3449.59	3494.08	78.54	
3300.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3350.21	3395.03	75.75	
3400.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3250.87	3296.04	72.98	
3500.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3151.58	3197.10	70.23	
3600.00	6661.93	11331.00	196.36	132.70	36.12	72.30	3052.34	3098.24	67.50	
3700.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2953.15	2999.45	64.78	
3800.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2854.02	2900.74	62.08	
3900.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2754.95	2802.13	59.40	
4000.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2655.97	2703.62	56.74	
4100.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2557.07	2605.22	54.11	
4200.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2458.26	2506.94	51.50	
4300.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2359.57	2408.81	48.91	
4400.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2260.87	2310.84	46.24	
4500.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2162.27	2213.05	43.58	

SD Anti-Collision Report

Secondary Well: Burton Flat Deep unit 53H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	FS (US ft)	CC (US ft)	SF	Risk
4600.00	6661.93	11331.00	196.36	132.70	36.12	72.30	2063.82	2115.47	40.95	
4700.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1965.53	2018.13	38.37	
4800.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1867.44	1921.05	35.83	
4900.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1769.56	1824.30	33.33	
5000.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1671.94	1727.91	30.87	
5100.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1574.44	1631.96	28.37	
5200.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1477.21	1536.52	25.91	
5300.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1380.40	1441.71	23.52	
5400.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1284.12	1347.64	21.22	
5500.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1188.46	1254.49	19.00	
5600.00	6661.93	11331.00	196.36	132.70	36.12	72.30	1093.24	1162.48	16.79	
5700.00	6661.93	11331.00	196.36	132.70	36.12	72.30	998.91	1071.90	14.69	
5800.00	6661.93	11331.00	196.36	132.70	36.12	72.30	905.88	983.15	12.72	
5900.00	6661.93	11331.00	196.36	132.70	36.12	72.30	814.53	896.77	10.90	
6000.00	6661.93	11331.00	196.36	132.70	36.12	72.30	724.93	813.52	9.18	
6100.00	6661.93	11331.00	196.36	132.70	36.12	72.30	638.56	734.46	7.66	
6200.00	6661.93	11331.00	196.36	132.70	36.12	72.30	556.92	661.09	6.35	
6300.00	6661.93	11331.00	196.36	132.70	36.12	72.30	481.77	595.53	5.23	
6400.00	6661.93	11331.00	196.36	132.70	36.12	72.30	416.88	540.62	4.37	
6500.00	6661.93	11331.00	196.36	132.70	36.12	72.30	367.59	499.89	3.78	
6600.00	6661.93	11331.00	11.41	132.70	36.12	72.30	338.53	476.72	3.45	
6700.00	6661.93	11331.00	11.69	132.70	36.12	72.30	323.99	462.77	3.33	
6800.00	6661.93	11331.00	11.89	132.70	36.12	72.30	320.34	453.13	3.41	
6900.00	6661.93	11331.00	9.04	132.70	36.12	72.30	326.88	448.56	3.69	
7000.00	6661.93	11331.00	354.13	132.70	36.12	72.30	350.78	456.88	4.31	
7100.00	6661.93	11331.00	344.29	132.70	36.12	72.30	390.20	481.02	5.30	
7200.00	6661.93	11331.00	339.29	132.70	36.12	72.30	440.76	518.10	6.70	
7300.00	6662.51	11303.26	339.75	131.95	35.92	71.91	497.06	563.92	8.44	
7400.00	6664.26	11221.16	343.77	129.74	35.34	70.74	548.09	607.64	10.20	
7500.00	6666.24	11133.04	346.62	127.35	34.71	69.48	588.03	643.22	11.65	
7600.00	6667.95	11040.71	348.23	124.84	34.06	68.17	615.83	668.48	12.70	
7700.00	6668.72	10956.19	348.78	122.54	33.49	66.97	630.65	682.33	13.20	
7800.00	6667.07	10865.20	348.52	120.07	32.85	65.67	634.40	686.30	13.22	
7900.00	6665.40	10763.47	347.91	117.30	32.13	64.23	634.73	687.03	13.14	
8000.00	6663.63	10659.97	347.32	114.48	31.39	62.76	635.17	687.84	13.06	
8100.00	6662.42	10560.77	346.82	111.78	30.69	61.36	635.02	688.03	12.98	
8200.00	6660.82	10458.73	346.33	108.99	29.97	59.92	635.24	688.55	12.92	
8300.00	6659.35	10366.18	345.91	106.48	29.32	58.61	635.29	689.11	12.80	
8400.00	6657.05	10257.84	345.42	103.50	28.55	57.09	636.16	690.25	12.76	
8500.00	6656.24	10149.32	345.03	100.51	27.78	55.57	635.43	689.68	12.71	
8600.00	6655.24	10065.89	344.68	98.30	27.21	54.40	634.89	689.80	12.56	
8700.00	6653.08	9962.84	344.19	95.49	26.49	52.96	635.70	691.10	12.48	
8800.00	6651.16	9866.71	343.75	92.88	25.82	51.62	636.27	692.29	12.36	
8900.00	6648.66	9773.49	343.31	90.36	25.18	50.32	637.47	694.28	12.22	
9000.00	6649.84	9626.46	342.78	86.22	24.11	48.29	635.38	691.74	12.27	
9100.00	6652.75	9522.79	342.51	83.37	23.39	46.87	630.62	687.25	12.14	
9200.00	6654.75	9442.01	342.30	81.24	22.87	45.76	625.89	683.26	11.91	
9300.00	6653.68	9362.16	342.04	79.13	22.35	44.67	625.09	683.29	11.74	
9400.00	6651.87	9262.59	341.69	76.43	21.67	43.32	625.40	684.03	11.67	
9500.00	6649.53	9165.44	341.33	73.81	21.02	42.00	626.26	685.55	11.56	
9600.00	6647.48	9068.30	340.96	71.19	20.36	40.69	626.90	686.83	11.46	
9700.00	6644.41	8979.95	340.60	68.82	19.78	39.51	628.93	689.66	11.36	
9800.00	6640.33	8883.99	340.13	66.25	19.14	38.23	632.20	693.75	11.27	
9900.00	6635.91	8756.51	339.61	62.75	18.28	36.55	635.15	696.89	11.29	
10000.00	6635.54	8653.36	339.24	59.96	17.60	35.20	634.08	696.33	11.19	
10100.00	6635.25	8549.78	338.81	57.21	16.93	33.86	633.18	696.02	11.08	
10200.00	6637.92	8429.50	338.17	53.97	16.13	32.34	630.25	693.57	10.95	
10300.00	6640.43	8340.68	337.70	51.58	15.59	31.22	626.18	690.55	10.73	

SD Anti-Collision Report

Secondary Well: Burton Flat Deep unit 53H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
10400.00	6639.89	8271.87	337.41	49.74	15.21	30.37	625.21	690.89	10.52	
10500.00	6636.15	8178.54	337.10	47.26	14.64	29.22	627.89	694.30	10.46	
10600.00	6631.98	8083.87	336.78	44.74	14.07	28.08	631.09	698.21	10.40	
10700.00	6630.22	7935.14	336.21	40.78	13.15	26.34	631.84	698.86	10.43	
10800.00	6634.34	7824.05	335.59	37.86	12.51	25.09	627.27	695.17	10.24	
10900.00	6637.99	7732.09	335.08	35.46	12.02	24.09	622.17	691.28	10.00	
11000.00	6639.50	7650.19	334.67	33.32	11.61	23.23	619.09	689.49	9.79	
11100.00	6638.14	7564.78	334.37	31.09	11.20	22.36	619.16	690.52	9.68	
11200.00	6635.73	7471.88	334.09	28.73	10.75	21.45	620.28	692.53	9.58	
11300.00	6631.94	7363.91	333.67	26.01	10.25	20.46	623.22	696.19	9.54	
11400.00	6631.54	7265.61	333.32	23.62	9.82	19.63	622.30	696.16	9.42	
11500.00	6629.60	7191.28	332.81	21.93	9.54	19.05	625.02	700.52	9.28	
11600.00	6628.65	7085.48	331.68	19.51	9.15	18.31	628.10	705.77	9.09	
11700.00	6629.72	6995.67	330.49	17.53	8.88	17.76	630.71	710.92	8.86	
11800.00	6629.57	6924.12	329.41	16.02	8.70	17.38	636.66	719.44	8.69	
11900.00	6626.97	6855.03	328.42	14.66	8.57	17.06	646.87	732.18	8.58	
12000.00	6623.50	6816.26	327.94	13.94	8.55	16.91	663.94	750.65	8.66	
12100.00	6617.82	6785.63	327.64	13.40	8.59	16.81	690.48	777.69	8.92	
12150.28	6613.76	6769.79	327.54	13.14	8.62	16.77	707.11	794.30	9.11	

Secondary Well: Burton Flat Deep Unit 95H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.00	1.00	180.23	0.00	0.00	0.05	49.43	50.00	88.07	
100.00	100.00	101.00	180.23	0.11	0.11	4.60	49.21	50.00	63.33	
200.00	200.00	201.00	180.23	0.34	0.34	4.62	48.76	50.00	40.35	
300.00	300.00	301.00	180.23	0.56	0.56	4.65	48.31	50.00	29.61	
400.00	400.00	401.00	180.23	0.79	0.79	4.69	47.86	50.00	23.38	
500.00	500.00	501.00	180.23	1.01	1.01	4.75	47.41	50.00	19.32	
600.00	600.00	601.00	180.23	1.24	1.24	4.81	46.96	50.00	16.46	
700.00	700.00	701.00	180.23	1.46	1.46	4.88	46.51	50.00	14.34	
800.00	800.00	801.00	180.23	1.69	1.69	4.97	46.06	50.00	12.70	
900.00	900.00	901.00	180.23	1.91	1.91	5.06	45.61	50.00	11.40	
1000.00	1000.00	1001.00	180.23	2.14	2.14	5.16	45.16	50.00	10.34	
1100.00	1100.00	1101.00	180.23	2.36	2.36	5.26	44.72	50.00	9.46	
1200.00	1200.00	1201.00	180.23	2.59	2.59	5.37	44.27	50.00	8.72	
1300.00	1300.00	1301.00	180.23	2.81	2.81	5.49	43.82	50.00	8.08	
1400.00	1400.00	1401.00	180.23	3.04	3.04	5.62	43.37	50.00	7.54	
1500.00	1500.00	1501.00	180.23	3.26	3.26	5.75	42.92	50.00	7.06	
1600.00	1600.00	1601.00	180.23	3.49	3.49	5.88	42.47	50.00	6.64	
1700.00	1700.00	1701.00	180.23	3.71	3.71	6.02	42.02	50.00	6.26	
1800.00	1800.00	1801.00	180.23	3.94	3.94	6.16	41.57	50.00	5.93	
1900.00	1900.00	1901.00	180.23	4.16	4.16	6.31	41.12	50.00	5.63	
2000.00	2000.00	2001.00	180.23	4.39	4.39	6.46	40.67	50.00	5.36	
2100.00	2100.00	2101.00	180.23	4.61	4.61	6.62	40.22	50.00	5.11	
2200.00	2200.00	2201.00	180.23	4.84	4.84	6.77	39.77	50.00	4.89	
2300.00	2300.00	2301.00	180.23	5.06	5.06	6.93	39.32	50.00	4.68	
2400.00	2400.00	2401.00	180.23	5.28	5.28	7.10	38.87	50.00	4.49	
2500.00	2500.00	2501.00	180.23	5.51	5.51	7.27	38.42	50.00	4.32	
2600.00	2600.00	2601.00	180.23	5.73	5.73	7.44	37.97	50.00	4.16	
2700.00	2700.00	2701.00	180.23	5.96	5.96	7.61	37.52	50.00	4.01	
2800.00	2800.00	2801.00	180.23	6.18	6.18	7.78	37.07	50.00	3.87	
2900.00	2900.00	2901.00	180.23	6.41	6.41	7.96	36.62	50.00	3.74	
3000.00	3000.00	3001.00	180.23	6.63	6.63	8.14	36.17	50.00	3.62	
3100.00	3100.00	3101.00	180.23	6.86	6.86	8.33	35.72	50.00	3.50	
3200.00	3200.00	3201.00	180.23	7.08	7.08	8.52	35.27	50.00	3.40	
3300.00	3300.00	3301.00	180.23	7.31	7.31	8.70	34.82	50.00	3.29	
3400.00	3400.00	3401.00	180.23	7.53	7.53	8.90	34.38	50.00	3.20	
3500.00	3500.00	3501.00	180.23	7.76	7.76	9.09	33.93	50.00	3.11	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 95H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
3600.00	3600.00	3601.00	180.23	7.98	7.98	9.29	33.48	50.00	3.03	
3700.00	3700.00	3701.00	180.23	8.21	8.21	9.49	33.03	50.00	2.95	
3800.00	3800.00	3801.00	180.23	8.43	8.43	9.70	32.58	50.00	2.87	
3900.00	3900.00	3901.00	180.23	8.66	8.66	9.90	32.13	50.00	2.80	
4000.00	4000.00	4001.00	180.23	8.88	8.88	10.11	31.68	50.00	2.73	
4100.00	4100.00	4101.00	180.23	9.11	9.11	10.33	31.23	50.00	2.66	
4200.00	4200.00	4201.00	180.23	9.33	9.33	10.54	30.78	50.00	2.60	
4300.00	4300.00	4301.00	180.23	9.56	9.56	10.76	30.33	50.00	2.54	
4400.00	4400.00	4401.00	180.23	9.78	9.78	10.99	29.88	50.00	2.48	
4500.00	4500.00	4501.00	180.23	10.01	10.01	11.21	29.43	50.00	2.43	
4600.00	4598.28	4599.30	180.22	10.20	10.19	11.44	30.65	51.61	2.46	
4700.00	4696.18	4697.33	180.20	10.36	10.35	11.67	35.34	56.65	2.66	
4800.00	4793.40	4794.90	180.18	10.52	10.49	11.89	43.47	65.09	3.01	
4900.00	4892.06	4894.11	180.15	10.70	10.66	12.13	53.54	75.58	3.43	
5000.00	4990.96	4993.55	180.13	10.87	10.83	12.37	63.66	86.08	3.84	
5100.00	5089.85	5093.00	180.12	11.05	11.01	12.62	73.75	96.59	4.23	
5200.00	5188.75	5192.45	180.11	11.24	11.18	12.87	83.89	107.09	4.62	
5300.00	5287.65	5291.89	180.10	11.43	11.36	13.12	93.97	117.60	4.98	
5400.00	5386.54	5391.34	180.09	11.63	11.55	13.38	104.06	128.10	5.33	
5500.00	5485.44	5490.79	180.08	11.83	11.73	13.65	114.16	138.61	5.67	
5600.00	5584.34	5590.23	180.08	12.03	11.91	13.91	124.25	149.11	6.00	
5700.00	5683.23	5689.68	180.07	12.24	12.10	14.18	134.34	159.62	6.32	
5800.00	5782.13	5789.13	180.07	12.45	12.29	14.46	144.44	170.12	6.62	
5900.00	5881.03	5888.57	180.06	12.67	12.48	14.74	154.53	180.63	6.92	
6000.00	5979.92	5988.02	180.06	12.89	12.67	15.02	164.61	191.13	7.21	
6100.00	6078.82	6087.47	180.06	13.11	12.87	15.31	174.70	201.64	7.49	
6200.00	6177.71	6186.91	180.05	13.33	13.06	15.61	184.79	212.14	7.76	
6300.00	6276.61	6286.36	180.05	13.56	13.26	15.91	194.87	222.65	8.02	
6400.00	6375.51	6385.81	180.05	13.79	13.45	16.21	204.96	233.15	8.27	
6500.00	6474.40	6485.25	180.05	14.02	13.65	16.52	215.04	243.66	8.51	
6600.00	6573.32	6584.73	355.05	14.25	13.85	16.83	224.92	253.91	8.76	
6700.00	6672.63	6684.59	354.81	14.49	14.06	17.15	223.43	252.79	8.61	
6800.00	6770.23	6782.72	353.99	14.73	14.25	17.47	204.70	234.43	7.89	
6900.00	6863.23	6876.24	348.56	14.95	14.45	17.77	169.57	199.69	6.63	
7000.00	6952.80	6966.32	322.19	15.17	14.63	18.07	130.71	161.19	5.29	
7100.00	7030.14	7044.24	293.96	15.38	14.72	18.33	103.88	134.75	4.37	
7200.00	7098.22	7114.26	269.69	15.59	14.64	18.55	111.10	142.85	4.50	
7300.00	7160.00	7180.10	253.19	15.84	14.45	18.73	154.71	187.39	5.73	
7400.00	7211.17	7237.20	244.83	16.10	14.20	18.88	222.30	255.73	7.65	
7500.00	7249.63	7282.28	243.27	16.32	13.95	18.99	304.33	338.47	9.91	
7600.00	7275.11	7313.46	249.75	16.49	13.75	19.07	395.53	430.21	12.41	
7700.00	7288.15	7329.93	275.11	16.59	13.64	19.10	492.11	527.07	15.07	
7800.00	7289.85	7332.10	314.83	16.61	13.63	19.11	590.75	625.82	17.85	
7900.00	7288.75	7330.70	315.70	16.60	13.64	19.11	689.85	724.90	20.68	
8000.00	7287.65	7329.29	316.57	16.59	13.65	19.10	789.10	824.20	23.48	
8100.00	7654.32	8894.13	249.34	28.35	14.59	29.54	860.11	913.36	17.15	
8200.00	7653.00	8994.13	249.27	30.60	15.15	30.63	856.29	913.71	15.91	
8300.00	7651.67	9094.12	249.21	32.93	15.73	31.76	852.39	914.06	14.82	
8400.00	7650.34	9194.12	249.15	35.32	16.32	32.91	848.22	914.42	13.81	
8500.00	7649.02	9294.11	249.08	37.76	16.91	34.08	843.92	914.77	12.91	
8600.00	7647.69	9394.11	249.02	40.24	17.52	35.28	839.60	915.13	12.12	
8700.00	7646.37	9494.10	248.96	42.75	18.14	36.49	835.26	915.49	11.41	
8800.00	7645.04	9594.09	248.89	45.30	18.76	37.73	830.93	915.85	10.79	
8900.00	7643.71	9694.09	248.83	47.86	19.40	38.98	826.52	916.21	10.22	
9000.00	7642.39	9794.08	248.77	50.45	20.04	40.24	822.03	916.57	9.70	
9100.00	7641.06	9894.08	248.71	53.05	20.68	41.52	817.81	916.93	9.25	
9200.00	7639.73	9994.07	248.64	55.67	21.33	42.81	813.25	917.29	8.82	
9300.00	7638.41	10094.07	248.58	58.30	21.99	44.11	808.64	917.66	8.42	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 95H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
9400.00	7637.08	10194.06	248.52	60.94	22.65	45.42	804.12	918.02	8.06	
9500.00	7635.76	10294.05	248.45	63.59	23.31	46.74	799.61	918.39	7.73	
9600.00	7634.43	10394.05	248.39	66.25	23.98	48.07	795.10	918.76	7.43	
9700.00	7633.10	10494.04	248.33	68.92	24.65	49.41	790.50	919.13	7.15	
9800.00	7631.78	10594.04	248.27	71.60	25.33	50.75	785.89	919.50	6.88	
9900.00	7630.45	10694.03	248.20	74.28	26.00	52.10	781.29	919.87	6.64	
10000.00	7629.12	10794.03	248.14	76.96	26.68	53.46	776.68	920.24	6.41	
10100.00	7627.80	10894.02	248.08	79.65	27.37	54.82	772.08	920.62	6.20	
10200.00	7626.47	10994.01	248.02	82.34	28.05	56.19	767.48	920.99	6.00	
10300.00	7625.15	11094.01	247.95	85.04	28.74	57.56	762.88	921.37	5.81	
10400.00	7623.82	11194.00	247.89	87.74	29.43	58.94	758.28	921.74	5.64	
10500.00	7622.49	11294.00	247.83	90.45	30.13	60.32	753.68	922.12	5.47	
10600.00	7621.17	11393.99	247.77	93.16	30.82	61.70	749.08	922.50	5.32	
10700.00	7619.84	11493.99	247.71	95.87	31.52	63.09	744.48	922.88	5.17	
10800.00	7618.52	11593.98	247.64	98.58	32.21	64.49	739.88	923.26	5.03	
10900.00	7617.19	11693.97	247.58	101.29	32.91	65.88	735.29	923.64	4.90	
11000.00	7615.86	11793.97	247.52	104.01	33.61	67.28	730.70	924.02	4.78	
11100.00	7614.54	11893.96	247.46	106.73	34.32	68.68	726.11	924.41	4.66	
11200.00	7613.21	11993.96	247.40	109.45	35.02	70.08	721.52	924.79	4.55	
11300.00	7611.88	12093.95	247.33	112.17	35.72	71.49	716.94	925.18	4.44	
11400.00	7610.56	12193.95	247.27	114.90	36.43	72.90	712.35	925.57	4.34	
11500.00	7609.23	12293.94	247.21	117.62	37.14	74.31	707.77	925.96	4.24	
11600.00	7607.91	12393.93	247.15	120.35	37.84	75.72	703.20	926.35	4.15	
11700.00	7606.58	12493.93	247.09	123.08	38.55	77.14	698.62	926.74	4.06	
11800.00	7605.25	12593.92	247.03	125.81	39.26	78.56	694.05	927.13	3.98	
11900.00	7603.93	12693.92	246.96	128.54	39.97	79.97	689.49	927.52	3.90	
12000.00	7602.60	12793.91	246.90	131.27	40.68	81.40	684.93	927.92	3.82	
12100.00	7601.27	12893.91	246.84	134.00	41.40	82.82	680.37	928.31	3.74	
12150.28	7600.61	12944.18	246.81	135.38	41.75	83.53	678.08	928.51	3.71	

Secondary Well: Burton Flat Deep Unit 81H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.00	1.00	180.29	0.00	0.00	0.05	99.43	100.00	176.14	
100.00	100.00	101.00	180.29	0.11	0.11	4.60	99.21	100.00	126.66	
200.00	200.00	201.00	180.29	0.34	0.34	4.62	98.76	100.00	80.70	
300.00	300.00	301.00	180.29	0.56	0.56	4.65	98.31	100.00	59.22	
400.00	400.00	401.00	180.29	0.79	0.79	4.69	97.86	100.00	46.77	
500.00	500.00	501.00	180.29	1.01	1.01	4.75	97.41	100.00	38.64	
600.00	600.00	601.00	180.29	1.24	1.24	4.81	96.96	100.00	32.92	
700.00	700.00	701.00	180.29	1.46	1.46	4.88	96.51	100.00	28.68	
800.00	800.00	801.00	180.29	1.69	1.69	4.97	96.06	100.00	25.40	
900.00	900.00	901.00	180.29	1.91	1.91	5.06	95.62	100.00	22.80	
1000.00	1000.00	1001.00	180.29	2.14	2.14	5.16	95.17	100.00	20.68	
1100.00	1100.00	1101.00	180.29	2.36	2.36	5.26	94.72	100.00	18.92	
1200.00	1200.00	1201.00	180.29	2.59	2.59	5.37	94.27	100.00	17.44	
1300.00	1300.00	1301.00	180.29	2.81	2.81	5.49	93.82	100.00	16.17	
1400.00	1400.00	1401.00	180.29	3.04	3.04	5.62	93.37	100.00	15.07	
1500.00	1500.00	1501.00	180.29	3.26	3.26	5.75	92.92	100.00	14.12	
1600.00	1600.00	1601.00	180.29	3.49	3.49	5.88	92.47	100.00	13.28	
1700.00	1700.00	1701.00	180.29	3.71	3.71	6.02	92.02	100.00	12.53	
1800.00	1800.00	1801.00	180.29	3.94	3.94	6.16	91.57	100.00	11.86	
1900.00	1900.00	1901.00	180.29	4.16	4.16	6.31	91.12	100.00	11.26	
2000.00	2000.00	2001.00	180.29	4.39	4.39	6.46	90.67	100.00	10.72	
2100.00	2100.00	2101.00	180.29	4.61	4.61	6.62	90.22	100.00	10.22	
2200.00	2200.00	2201.00	180.29	4.84	4.84	6.77	89.77	100.00	9.77	
2300.00	2300.00	2301.00	180.29	5.06	5.06	6.93	89.32	100.00	9.36	
2400.00	2400.00	2401.00	180.29	5.28	5.28	7.10	88.87	100.00	8.99	
2500.00	2500.00	2501.00	180.29	5.51	5.51	7.27	88.42	100.00	8.64	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 81H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
2600.00	2600.00	2601.00	180.29	5.73	5.73	7.44	87.97	100.00	8.31	
2700.00	2700.00	2701.00	180.29	5.96	5.96	7.61	87.52	100.00	8.01	
2800.00	2800.00	2801.00	180.29	6.18	6.18	7.78	87.07	100.00	7.74	
2900.00	2900.00	2901.00	180.29	6.41	6.41	7.96	86.62	100.00	7.48	
3000.00	3000.00	3001.00	180.29	6.63	6.63	8.14	86.17	100.00	7.23	
3100.00	3100.00	3101.00	180.29	6.86	6.86	8.33	85.72	100.00	7.00	
3200.00	3200.00	3201.00	180.29	7.08	7.08	8.52	85.28	100.00	6.79	
3300.00	3300.00	3301.00	180.29	7.31	7.31	8.70	84.83	100.00	6.59	
3400.00	3400.00	3401.00	180.29	7.53	7.53	8.90	84.38	100.00	6.40	
3500.00	3500.00	3501.00	180.29	7.76	7.76	9.09	83.93	100.00	6.22	
3600.00	3600.00	3601.00	180.29	7.98	7.98	9.29	83.48	100.00	6.05	
3700.00	3699.57	3700.57	180.29	8.20	8.20	9.49	83.10	100.05	5.90	
3800.00	3797.83	3798.84	180.33	8.36	8.36	9.69	84.00	101.34	5.85	
3900.00	3895.98	3897.04	180.44	8.53	8.53	9.89	86.61	104.33	5.89	
4000.00	3993.94	3995.11	180.59	8.70	8.69	10.10	90.94	109.04	6.02	
4100.00	4091.62	4092.99	180.78	8.87	8.85	10.31	96.97	115.45	6.25	
4200.00	4188.93	4190.62	180.98	9.04	9.02	10.51	104.70	123.55	6.55	
4300.00	4285.87	4288.03	181.20	9.22	9.18	10.72	114.14	133.36	6.94	
4400.00	4384.74	4387.47	181.41	9.41	9.36	10.94	124.35	143.95	7.34	
4500.00	4483.62	4486.90	181.58	9.60	9.55	11.17	134.54	154.55	7.72	
4600.00	4582.49	4586.34	181.74	9.80	9.73	11.40	144.72	165.15	8.08	
4700.00	4681.37	4685.77	181.88	10.01	9.92	11.63	154.91	175.76	8.43	
4800.00	4780.24	4785.21	182.00	10.22	10.11	11.86	165.10	186.36	8.77	
4900.00	4879.12	4884.65	182.10	10.43	10.30	12.10	175.29	196.96	9.09	
5000.00	4977.99	4984.08	182.20	10.65	10.49	12.35	185.48	207.56	9.40	
5100.00	5076.86	5083.52	182.29	10.87	10.69	12.59	195.66	218.17	9.69	
5200.00	5175.74	5182.95	182.37	11.09	10.89	12.85	205.85	228.77	9.98	
5300.00	5274.61	5282.39	182.44	11.32	11.08	13.10	216.03	239.38	10.25	
5400.00	5373.49	5381.82	182.51	11.55	11.28	13.36	226.21	249.98	10.52	
5500.00	5472.36	5481.26	182.57	11.79	11.48	13.62	236.39	260.59	10.77	
5600.00	5571.24	5580.70	182.62	12.03	11.69	13.89	246.57	271.19	11.01	
5700.00	5670.11	5680.13	182.68	12.26	11.89	14.16	256.75	281.80	11.25	
5800.00	5768.99	5779.57	182.72	12.51	12.10	14.44	266.93	292.41	11.48	
5900.00	5867.86	5879.00	182.77	12.75	12.30	14.72	277.11	303.01	11.70	
6000.00	5966.73	5978.44	182.81	13.00	12.51	15.00	287.28	313.62	11.91	
6100.00	6065.61	6077.87	182.85	13.25	12.72	15.29	297.46	324.23	12.11	
6200.00	6164.48	6177.31	182.89	13.50	12.93	15.59	307.64	334.83	12.31	
6300.00	6263.36	6276.74	182.92	13.75	13.13	15.89	317.81	345.44	12.50	
6400.00	6362.23	6376.18	182.95	14.00	13.35	16.19	327.98	356.05	12.69	
6500.00	6461.11	6475.62	182.98	14.26	13.56	16.50	338.16	366.66	12.86	
6600.00	6560.01	6575.08	358.01	14.52	13.77	16.81	348.07	377.01	13.02	
6700.00	6659.31	6674.94	357.98	14.78	13.98	17.13	346.63	375.95	12.82	
6800.00	6736.19	6752.39	357.83	14.99	14.10	17.37	329.66	359.15	12.18	
6900.00	6795.29	6812.93	354.34	15.19	14.07	17.55	305.27	334.71	11.37	
7000.00	6854.34	6875.26	335.30	15.44	13.94	17.72	285.39	314.52	10.80	
7100.00	6911.17	6937.90	319.13	15.74	13.71	17.88	277.51	306.34	10.63	
7200.00	6962.70	6998.01	306.55	16.06	13.41	18.03	284.45	313.25	10.88	
7300.00	7006.75	7052.98	297.81	16.42	13.08	18.15	308.24	337.57	11.51	
7400.00	7042.37	7100.82	293.11	16.74	12.75	18.26	348.76	379.37	12.39	
7500.00	7069.62	7140.20	292.60	17.06	12.46	18.35	404.16	436.38	13.55	
7600.00	7089.13	7170.37	296.45	17.31	12.23	18.41	471.33	505.14	14.94	
7700.00	7101.69	7190.86	304.75	17.47	12.06	18.46	546.69	582.01	16.48	
7800.00	7108.16	7201.81	312.40	17.57	11.98	18.49	627.23	663.78	18.16	
7900.00	7113.20	7210.55	311.07	17.65	11.91	18.51	712.14	749.47	20.08	
8000.00	7118.29	7219.57	309.71	17.74	11.84	18.53	800.12	838.19	22.02	
8100.00	7331.42	8434.85	270.04	27.00	13.32	27.09	798.93	854.43	15.39	
8200.00	7329.24	8534.85	270.03	29.23	13.87	28.16	794.35	854.41	14.23	
8300.00	7327.07	8634.85	270.01	31.54	14.44	29.26	789.73	854.38	13.21	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 81H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
8400.00	7324.89	8734.85	270.00	33.92	15.02	30.39	785.04	854.36	12.32	
8500.00	7322.72	8834.85	269.98	36.35	15.61	31.55	780.07	854.34	11.50	
8600.00	7320.54	8934.85	269.97	38.82	16.22	32.73	775.00	854.31	10.77	
8700.00	7318.37	9034.85	269.95	41.33	16.83	33.94	769.91	854.29	10.12	
8800.00	7316.19	9134.85	269.94	43.88	17.45	35.16	764.81	854.27	9.55	
8900.00	7314.01	9234.85	269.92	46.44	18.08	36.41	759.71	854.24	9.04	
9000.00	7311.84	9334.85	269.91	49.03	18.72	37.67	754.57	854.22	8.57	
9100.00	7309.66	9434.85	269.89	51.63	19.37	38.94	749.29	854.20	8.14	
9200.00	7307.49	9534.85	269.88	54.25	20.02	40.23	743.95	854.17	7.75	
9300.00	7305.31	9634.85	269.86	56.88	20.67	41.53	738.65	854.15	7.40	
9400.00	7303.14	9734.85	269.85	59.52	21.33	42.84	733.36	854.13	7.07	
9500.00	7300.96	9834.85	269.83	62.17	22.00	44.15	728.03	854.10	6.77	
9600.00	7298.79	9934.85	269.82	64.83	22.66	45.48	722.65	854.08	6.50	
9700.00	7296.61	10034.85	269.81	67.50	23.34	46.82	717.26	854.06	6.24	
9800.00	7294.43	10134.85	269.79	70.18	24.01	48.16	711.87	854.03	6.01	
9900.00	7292.26	10234.85	269.78	72.86	24.69	49.52	706.47	854.01	5.79	
10000.00	7290.08	10334.85	269.76	75.55	25.38	50.87	701.05	853.99	5.58	
10100.00	7287.91	10434.85	269.75	78.24	26.06	52.24	695.63	853.96	5.39	
10200.00	7285.73	10534.84	269.73	80.93	26.75	53.61	690.21	853.94	5.22	
10300.00	7283.56	10634.84	269.72	83.63	27.44	54.98	684.78	853.92	5.05	
10400.00	7281.38	10734.84	269.70	86.33	28.13	56.36	679.34	853.90	4.89	
10500.00	7279.21	10834.84	269.69	89.04	28.82	57.74	673.90	853.87	4.74	
10600.00	7277.03	10934.84	269.67	91.75	29.52	59.13	668.45	853.85	4.61	
10700.00	7274.85	11034.84	269.66	94.46	30.22	60.52	663.00	853.83	4.47	
10800.00	7272.68	11134.84	269.64	97.17	30.92	61.91	657.55	853.81	4.35	
10900.00	7270.50	11234.84	269.63	99.89	31.62	63.31	652.09	853.78	4.23	
11000.00	7268.33	11334.84	269.61	102.61	32.32	64.71	646.63	853.76	4.12	
11100.00	7266.15	11434.84	269.60	105.33	33.02	66.11	641.16	853.74	4.02	
11200.00	7263.98	11534.84	269.58	108.05	33.73	67.52	635.69	853.72	3.92	
11300.00	7261.80	11634.84	269.57	110.77	34.43	68.93	630.22	853.70	3.82	
11400.00	7259.63	11734.84	269.55	113.50	35.14	70.34	624.75	853.67	3.73	
11500.00	7257.45	11834.84	269.54	116.22	35.85	71.75	619.27	853.65	3.64	
11600.00	7255.27	11934.84	269.52	118.95	36.56	73.17	613.79	853.63	3.56	
11700.00	7253.10	12034.84	269.51	121.68	37.27	74.59	608.31	853.61	3.48	
11800.00	7250.92	12134.84	269.49	124.41	37.98	76.00	602.83	853.59	3.40	
11900.00	7248.75	12234.84	269.48	127.14	38.69	77.43	597.35	853.56	3.33	
12000.00	7246.57	12334.84	269.46	129.87	39.40	78.85	591.86	853.54	3.26	
12100.00	7244.40	12434.84	269.45	132.60	40.11	80.27	586.37	853.52	3.19	
12150.28	7243.30	12485.12	269.44	133.98	40.47	80.99	583.62	853.51	3.16	

Secondary Well: Burton Flat Deep Unit 61H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.64	2.64	265.26	0.01	0.01	0.18	5027.93	5028.50	8822.05	
100.00	127.59	129.60	265.26	0.29	0.29	2.63	5027.24	5028.21	5203.83	
200.00	291.46	293.50	265.23	0.73	0.73	2.63	5025.29	5026.91	3089.61	
300.00	418.05	420.19	265.18	1.06	1.06	2.63	5022.61	5024.79	2300.14	
400.00	485.89	488.09	265.15	1.24	1.24	2.64	5020.18	5022.76	1940.59	
500.00	568.86	571.11	265.12	1.46	1.46	2.64	5018.25	5021.28	1656.58	
600.00	655.33	657.64	265.09	1.69	1.69	2.65	5016.53	5020.02	1440.24	
700.00	741.57	743.91	265.06	1.92	1.91	2.66	5015.14	5019.07	1275.53	
800.00	830.93	833.30	265.03	2.15	2.15	2.67	5013.96	5018.35	1143.16	
900.00	919.06	921.46	265.01	2.38	2.38	2.67	5013.01	5017.85	1036.92	
1000.00	1006.33	1008.76	264.98	2.61	2.60	2.68	5012.29	5017.58	948.27	
1100.00	1080.23	1082.67	264.97	2.79	2.78	2.69	5012.01	5017.71	880.24	
1200.00	1203.89	1206.34	264.95	3.10	3.09	2.70	5011.63	5017.86	804.81	
1300.00	1293.81	1296.26	264.94	3.32	3.31	2.71	5011.20	5017.89	750.81	
1400.00	1387.02	1389.47	264.94	3.55	3.54	2.72	5010.97	5018.11	703.43	
1500.00	1493.41	1495.87	264.93	3.81	3.80	2.73	5010.61	5018.23	658.48	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 61H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
1600.00	1578.92	1581.38	264.92	4.01	4.01	2.74	5010.46	5018.50	623.76	
1700.00	1668.56	1671.03	264.91	4.21	4.21	2.75	5010.60	5019.07	593.00	
1800.00	1785.14	1787.62	264.90	4.49	4.49	2.77	5010.52	5019.48	560.08	
1900.00	1884.35	1886.84	264.88	4.75	4.74	2.78	5010.32	5019.76	531.66	
2000.00	1998.99	2001.50	264.86	5.05	5.04	2.80	5010.07	5020.04	503.47	
2100.00	2107.67	2110.19	264.84	5.34	5.33	2.81	5009.42	5019.90	478.78	
2200.00	2190.82	2193.35	264.82	5.56	5.55	2.82	5008.96	5019.89	459.26	
2300.00	2298.62	2301.17	264.80	5.84	5.83	2.84	5008.64	5020.08	438.78	
2400.00	2392.78	2395.34	264.78	6.09	6.08	2.85	5008.23	5020.14	421.35	
2500.00	2498.87	2501.44	264.77	6.37	6.36	2.87	5007.82	5020.23	404.30	
2600.00	2587.16	2589.73	264.76	6.60	6.59	2.88	5007.50	5020.37	390.05	
2700.00	2669.49	2672.06	264.75	6.71	6.70	6.69	5007.59	5020.80	380.07	
2800.00	2771.43	2774.01	264.74	6.74	6.73	7.74	5007.97	5021.43	373.00	
2900.00	2879.01	2881.60	264.73	6.75	6.74	7.93	5008.23	5021.93	366.59	
3000.00	2978.95	2981.54	264.72	6.77	6.76	8.11	5008.40	5022.34	360.24	
3100.00	3076.38	3078.98	264.72	6.80	6.79	8.29	5008.60	5022.79	353.95	
3200.00	3177.11	3179.70	264.72	6.83	6.82	8.48	5008.79	5023.24	347.74	
3300.00	3270.34	3272.94	264.71	6.87	6.86	8.65	5009.08	5023.78	341.69	
3400.00	3374.85	3377.45	264.71	6.91	6.90	8.85	5009.29	5024.26	335.60	
3500.00	3456.59	3459.19	264.71	6.95	6.94	9.01	5009.73	5024.96	329.89	
3600.00	3559.58	3562.19	264.71	7.01	7.00	9.22	5010.29	5025.80	324.04	
3700.00	3657.72	3660.33	264.71	7.07	7.06	9.41	5010.78	5026.57	318.28	
3800.00	3739.12	3741.74	264.72	7.13	7.12	9.58	5011.55	5027.62	312.88	
3900.00	3847.00	3849.62	264.72	7.21	7.20	9.80	5012.40	5028.77	307.14	
4000.00	3954.94	3957.57	264.74	7.29	7.28	10.02	5012.99	5029.68	301.34	
4100.00	4048.58	4051.23	264.75	7.37	7.36	10.22	5013.66	5030.66	295.93	
4200.00	4152.77	4155.42	264.76	7.46	7.45	10.45	5014.34	5031.66	290.56	
4300.00	4246.94	4249.61	264.77	7.55	7.54	10.65	5014.98	5032.59	285.70	
4400.00	4335.84	4338.52	264.79	7.63	7.62	10.85	5015.88	5033.80	280.90	
4500.00	4441.36	4444.06	264.81	7.74	7.73	11.09	5016.78	5035.05	275.61	
4600.00	4536.35	4539.07	264.82	7.84	7.83	11.30	5017.63	5036.20	271.24	
4700.00	4622.99	4625.74	264.84	7.94	7.93	11.50	5018.69	5037.60	266.33	
4800.00	4714.47	4717.25	264.86	8.05	8.04	11.72	5020.00	5039.23	262.10	
4900.00	4818.88	4821.70	264.89	8.18	8.16	11.97	5021.35	5040.94	257.35	
5000.00	4913.95	4916.81	264.92	8.30	8.28	12.20	5022.58	5042.52	252.93	
5100.00	5011.35	5014.27	264.95	8.42	8.40	12.44	5024.04	5044.32	248.70	
5200.00	5104.09	5107.08	264.99	8.54	8.52	12.67	5025.46	5046.09	244.66	
5300.00	5282.97	5286.08	265.06	8.78	8.76	13.12	5026.35	5047.45	239.29	
5400.00	5384.71	5387.87	265.10	8.92	8.89	13.39	5026.18	5047.63	235.39	
5500.00	5469.00	5472.20	265.12	9.03	9.00	13.61	5026.34	5048.10	231.91	
5600.00	5558.74	5561.98	265.15	9.16	9.13	13.85	5026.72	5048.83	228.30	
5700.00	5771.21	5774.53	265.21	9.47	9.43	14.44	5026.05	5048.72	222.69	
5800.00	5871.29	5874.64	265.23	9.61	9.58	14.72	5024.19	5047.24	219.02	
5900.00	5954.80	5958.16	265.25	9.74	9.70	14.96	5022.58	5045.97	215.76	
6000.00	6022.70	6026.07	265.26	9.84	9.80	15.15	5021.44	5045.15	212.81	
6100.00	6080.90	6084.27	265.26	9.93	9.89	15.32	5021.09	5045.11	210.08	
6200.00	6314.78	6318.17	265.24	10.28	10.25	16.02	5020.75	5045.33	205.26	
6300.00	6407.00	6410.42	265.24	10.42	10.39	16.30	5018.10	5043.04	202.23	
6400.00	6481.30	6484.74	265.23	10.53	10.51	16.53	5015.87	5041.16	199.31	
6500.00	6553.49	6556.94	265.22	10.65	10.62	16.76	5014.18	5039.82	196.54	
6600.00	6648.04	6651.50	80.23	10.80	10.78	17.06	5012.71	5038.78	193.28	
6700.00	6736.01	6739.48	80.61	10.94	10.92	17.34	5009.60	5035.97	190.94	
6800.00	6820.64	6824.12	81.39	11.08	11.06	17.62	5003.96	5030.63	188.64	
6900.00	6848.77	6852.25	79.18	11.13	11.11	17.71	4996.37	5023.29	186.62	
7000.00	6862.45	6865.94	63.46	11.15	11.13	17.75	4978.28	5005.48	184.02	
7100.00	6874.41	6877.90	51.17	11.17	11.15	17.79	4945.03	4972.49	181.04	
7200.00	6884.66	6888.16	42.26	11.19	11.17	17.83	4897.24	4925.09	176.87	
7300.00	6894.00	6897.51	35.89	11.20	11.18	17.86	4836.18	4864.36	172.63	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 61H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
7400.00	6902.19	6905.72	31.19	11.21	11.19	17.88	4763.24	4791.73	168.23	
7500.00	6909.02	6912.57	27.40	11.23	11.20	17.91	4680.17	4708.96	163.54	
7600.00	6914.23	6917.81	23.47	11.23	11.21	17.92	4589.15	4618.15	159.23	
7700.00	6917.64	6921.22	15.83	11.24	11.21	17.93	4492.59	4521.71	155.28	
7800.00	6919.15	6922.74	351.65	11.24	11.21	17.94	4393.16	4422.35	151.51	
7900.00	6920.20	6923.80	351.62	11.24	11.21	17.94	4293.44	4322.61	148.18	
8000.00	6921.29	6924.90	351.60	11.25	11.22	17.95	4193.75	4222.89	144.94	
8100.00	6922.43	6926.04	351.57	11.25	11.22	17.95	4094.05	4123.17	141.57	
8200.00	6923.62	6927.23	351.54	11.25	11.22	17.95	3994.32	4023.47	138.03	
8300.00	6924.85	6928.48	351.51	11.25	11.22	17.96	3894.62	3923.78	134.54	
8400.00	6926.14	6929.77	351.48	11.25	11.22	17.96	3794.93	3824.11	131.09	
8500.00	6927.49	6931.13	351.45	11.26	11.22	17.97	3695.27	3724.44	127.66	
8600.00	6928.90	6932.55	351.42	11.26	11.22	17.97	3595.63	3624.80	124.27	
8700.00	6930.38	6934.03	351.38	11.26	11.23	17.98	3496.03	3525.17	120.97	
8800.00	6931.89	6935.56	351.35	11.26	11.23	17.98	3396.38	3425.56	117.40	
8900.00	6933.43	6937.11	351.31	11.27	11.23	17.99	3296.80	3325.97	114.03	
9000.00	6935.05	6938.74	351.27	11.27	11.23	17.99	3197.21	3226.39	110.55	
9100.00	6936.75	6940.45	351.23	11.27	11.23	18.00	3097.67	3126.84	107.18	
9200.00	6938.55	6942.26	351.19	11.28	11.23	18.00	2998.11	3027.32	103.66	
9300.00	6940.44	6944.17	351.14	11.28	11.23	18.01	2898.61	2927.82	100.22	
9400.00	6942.44	6946.18	351.09	11.28	11.24	18.01	2799.16	2828.35	96.89	
9500.00	6944.55	6948.31	351.04	11.29	11.24	18.02	2699.67	2728.91	93.33	
9600.00	6946.79	6950.57	350.98	11.29	11.24	18.03	2600.23	2629.50	89.84	
9700.00	6949.17	6952.97	350.93	11.30	11.24	18.03	2500.84	2530.13	86.38	
9800.00	6951.69	6955.53	350.86	11.30	11.24	18.04	2401.49	2430.80	82.93	
9900.00	6954.38	6958.25	350.80	11.31	11.25	18.05	2302.19	2331.52	79.48	
10000.00	6957.26	6961.15	350.73	11.31	11.25	18.06	2202.93	2232.28	76.04	
10100.00	6960.33	6964.27	350.65	11.32	11.25	18.07	2103.72	2133.10	72.60	
10200.00	6963.64	6967.62	350.57	11.32	11.25	18.08	2004.56	2033.98	69.15	
10300.00	6967.28	6971.32	350.48	11.33	11.25	18.09	1905.47	1934.92	65.70	
10400.00	6971.21	6975.30	350.38	11.34	11.25	18.10	1806.45	1835.93	62.26	
10500.00	6975.44	6979.60	350.28	11.35	11.26	18.12	1707.51	1737.03	58.83	
10600.00	6980.02	6984.27	350.17	11.36	11.26	18.13	1608.64	1638.22	55.38	
10700.00	6985.00	6989.34	350.04	11.37	11.26	18.15	1509.88	1539.52	51.94	
10800.00	6990.43	6994.88	349.91	11.38	11.26	18.16	1411.23	1440.93	48.51	
10900.00	6996.79	7001.39	349.76	11.39	11.26	18.18	1312.70	1342.48	45.08	
11000.00	7004.23	7009.02	349.57	11.40	11.27	18.20	1214.29	1244.17	41.65	
11100.00	7012.37	7017.38	349.36	11.42	11.27	18.23	1116.06	1146.02	38.24	
11200.00	7021.30	7026.57	349.13	11.44	11.27	18.26	1017.98	1048.06	34.84	
11300.00	7030.60	7036.18	348.88	11.46	11.28	18.28	920.12	950.32	31.46	
11400.00	7040.77	7046.73	348.60	11.48	11.28	18.32	822.46	852.86	28.06	
11500.00	7052.17	7058.60	348.27	11.51	11.28	18.35	725.04	755.71	24.64	
11600.00	7064.96	7071.99	347.87	11.54	11.28	18.39	627.93	658.95	21.24	
11700.00	7079.48	7087.28	347.38	11.57	11.28	18.43	531.23	562.66	17.90	
11800.00	7096.25	7105.07	346.73	11.61	11.28	18.48	435.00	466.95	14.62	
11900.00	7115.44	7125.59	345.76	11.66	11.28	18.54	339.13	371.95	11.33	
12000.00	7136.72	7148.60	344.26	11.72	11.26	18.60	243.77	277.95	8.13	
12100.00	7162.79	7177.21	341.27	11.80	11.25	18.67	148.62	185.29	5.05	
12150.28	7177.87	7193.98	338.33	11.85	11.24	18.72	100.39	139.36	3.58	

Secondary Well: Burton Flat Deep Unit 62H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	7678.05	12188.98	222.58	130.85	36.10	72.20	7655.35	7692.48	207.14	
100.00	7678.21	12192.84	222.23	130.96	36.13	72.26	7553.20	7592.67	192.36	
200.00	7678.37	12196.71	221.88	131.07	36.15	72.31	7453.34	7492.86	189.59	
300.00	7678.53	12200.60	221.52	131.18	36.18	72.37	7353.48	7393.06	186.80	
400.00	7678.69	12204.49	221.15	131.28	36.21	72.42	7253.62	7293.26	183.99	
500.00	7678.85	12208.39	220.78	131.39	36.24	72.48	7153.75	7193.46	181.16	

SD Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 62H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
600.00	7679.01	12212.29	220.41	131.50	36.26	72.53	7053.88	7093.66	178.31	
700.00	7679.18	12216.21	220.03	131.61	36.29	72.59	6954.01	6993.87	175.45	
800.00	7679.34	12220.14	219.65	131.72	36.32	72.64	6854.14	6894.08	172.58	
900.00	7679.51	12224.13	219.25	131.83	36.35	72.70	6754.26	6794.30	169.70	
1000.00	7679.76	12230.25	218.64	132.00	36.39	72.79	6654.37	6694.52	166.75	
1100.00	7680.01	12236.29	218.02	132.17	36.43	72.87	6554.48	6594.74	163.81	
1200.00	7680.25	12242.25	217.41	132.33	36.48	72.96	6454.59	6494.97	160.86	
1300.00	7680.49	12248.13	216.79	132.49	36.52	73.04	6354.70	6395.19	157.92	
1400.00	7680.72	12253.93	216.17	132.65	36.56	73.12	6254.81	6295.43	154.99	
1500.00	7680.95	12259.67	215.55	132.81	36.60	73.20	6154.92	6195.66	152.07	
1600.00	7681.18	12265.32	214.92	132.97	36.64	73.28	6055.03	6095.90	149.15	
1700.00	7681.40	12270.91	214.30	133.12	36.68	73.36	5955.14	5996.14	146.25	
1800.00	7681.61	12276.42	213.67	133.27	36.72	73.44	5855.26	5896.39	143.35	
1900.00	7681.83	12281.87	213.04	133.42	36.76	73.52	5755.38	5796.65	140.46	
2000.00	7682.04	12287.25	212.41	133.57	36.79	73.59	5655.50	5696.90	137.58	
2100.00	7682.24	12292.56	211.79	133.72	36.83	73.67	5555.62	5597.17	134.71	
2200.00	7682.44	12297.80	211.16	133.86	36.87	73.74	5455.75	5497.44	131.86	
2300.00	7682.64	12302.98	210.53	134.00	36.91	73.81	5355.88	5397.71	129.02	
2400.00	7682.83	12308.10	209.90	134.14	36.94	73.89	5256.01	5298.00	126.19	
2500.00	7683.02	12313.15	209.26	134.28	36.98	73.96	5156.15	5198.29	123.38	
2600.00	7683.21	12318.15	208.63	134.42	37.01	74.03	5056.30	5098.58	120.58	
2700.00	7683.39	12323.08	208.00	134.56	37.05	74.10	4956.45	4998.89	117.80	
2800.00	7683.57	12327.96	207.37	134.69	37.08	74.17	4856.61	4899.20	115.03	
2900.00	7683.74	12332.59	206.77	134.82	37.12	74.23	4756.76	4799.53	112.23	
3000.00	7683.88	12336.26	206.28	134.92	37.14	74.28	4656.91	4699.86	109.42	
3100.00	7684.01	12339.92	205.80	135.02	37.17	74.34	4557.07	4600.21	106.63	
3200.00	7684.15	12343.59	205.31	135.12	37.19	74.39	4457.23	4500.57	103.85	
3300.00	7684.28	12347.25	204.81	135.22	37.22	74.44	4357.40	4400.94	101.08	
3400.00	7684.41	12350.92	204.31	135.32	37.25	74.49	4257.58	4301.32	98.33	
3500.00	7684.55	12354.58	203.81	135.42	37.27	74.54	4157.77	4201.73	95.59	
3600.00	7684.68	12358.25	203.30	135.52	37.30	74.60	4057.97	4102.14	92.87	
3700.00	7684.82	12361.91	202.79	135.62	37.32	74.65	3958.18	4002.58	90.16	
3800.00	7684.95	12365.57	202.27	135.72	37.35	74.70	3858.41	3903.03	87.47	
3900.00	7685.09	12369.24	201.75	135.82	37.38	74.75	3758.64	3803.50	84.79	
4000.00	7685.22	12372.90	201.23	135.92	37.40	74.80	3658.90	3704.00	82.13	
4100.00	7685.35	12376.57	200.70	136.02	37.43	74.85	3559.17	3604.52	79.48	
4200.00	7685.49	12380.23	200.17	136.12	37.45	74.91	3459.45	3505.06	76.85	
4300.00	7685.62	12383.90	199.64	136.22	37.48	74.96	3359.76	3405.64	74.24	
4400.00	7685.76	12387.56	199.10	136.32	37.51	75.01	3260.09	3306.24	71.64	
4500.00	7685.89	12391.22	198.56	136.42	37.53	75.06	3160.44	3206.88	69.06	
4600.00	7686.03	12394.89	198.01	136.52	37.56	75.11	3060.81	3107.55	66.49	
4700.00	7686.16	12398.55	197.47	136.62	37.58	75.17	2961.22	3008.26	63.95	
4800.00	7686.29	12402.22	196.92	136.72	37.61	75.22	2861.66	2909.02	61.42	
4900.00	7686.43	12405.88	196.36	136.82	37.64	75.27	2762.13	2809.83	58.91	
5000.00	7686.56	12409.55	195.80	136.92	37.66	75.32	2662.58	2710.69	56.35	
5100.00	7686.70	12413.21	195.24	137.02	37.69	75.37	2563.03	2611.61	53.76	
5200.00	7686.76	12415.00	194.97	137.07	37.70	75.40	2463.54	2512.60	51.21	
5300.00	7686.76	12415.00	194.97	137.07	37.70	75.40	2364.11	2413.67	48.71	
5400.00	7686.76	12415.00	194.97	137.07	37.70	75.40	2264.74	2314.83	46.21	
5500.00	7686.76	12415.00	194.97	137.07	37.70	75.40	2165.43	2216.10	43.74	
5600.00	7686.76	12415.00	194.97	137.07	37.70	75.40	2066.20	2117.49	41.29	
5700.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1967.06	2019.01	38.87	
5800.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1868.02	1920.69	36.47	
5900.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1769.05	1822.55	34.07	
6000.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1670.07	1724.63	31.61	
6100.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1571.23	1626.95	29.20	
6200.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1472.57	1529.58	26.83	
6300.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1374.14	1432.58	24.51	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 62H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
6400.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1275.94	1336.01	22.24	
6500.00	7686.76	12415.00	194.97	137.07	37.70	75.40	1177.78	1239.99	19.93	
6600.00	7686.76	12415.00	10.96	137.07	37.70	75.40	1079.85	1144.57	17.68	
6700.00	7686.76	12415.00	24.79	137.07	37.70	75.40	980.38	1046.99	15.72	
6800.00	7686.76	12415.00	121.83	137.07	37.70	75.40	880.32	947.41	14.12	
6900.00	7686.76	12415.00	164.73	137.07	37.70	75.40	782.93	848.62	12.92	
7000.00	7686.76	12415.00	189.46	137.07	37.70	75.40	688.12	751.34	11.88	
7100.00	7686.76	12415.00	196.79	137.07	37.70	75.40	597.48	657.88	10.89	
7200.00	7685.56	12382.18	194.51	136.17	37.47	74.93	515.73	572.66	10.06	
7300.00	7683.32	12321.24	190.31	134.50	37.04	74.07	444.61	497.55	9.40	
7400.00	7680.41	12246.10	186.27	132.44	36.50	73.01	385.21	434.55	8.81	
7500.00	7676.95	12162.04	182.71	130.10	35.91	71.82	338.45	385.27	8.23	
7600.00	7672.88	12067.51	179.72	127.52	35.24	70.49	305.02	350.68	7.68	
7700.00	7667.63	11968.04	178.00	124.87	34.53	69.09	284.84	330.23	7.27	
7800.00	7662.75	11872.40	177.83	122.28	33.87	67.75	278.86	324.04	7.17	
7900.00	7659.05	11774.37	177.93	119.65	33.18	66.37	277.85	322.63	7.20	
8000.00	7655.81	11676.55	178.22	116.98	32.50	65.00	277.29	321.66	7.25	
8100.00	7653.15	11578.04	178.35	114.28	31.81	63.63	277.30	321.34	7.30	
8200.00	7650.88	11479.28	178.46	111.60	31.12	62.25	277.66	321.42	7.34	
8300.00	7648.99	11380.41	178.70	108.94	30.44	60.88	278.32	321.87	7.39	
8400.00	7646.17	11274.82	179.05	106.06	29.70	59.41	278.28	321.56	7.43	
8500.00	7643.12	11176.66	179.24	103.38	29.02	58.05	277.71	320.82	7.44	
8600.00	7639.69	11074.50	179.21	100.56	28.32	56.65	276.92	319.86	7.45	
8700.00	7636.27	10975.90	179.14	97.91	27.64	55.29	275.99	318.80	7.45	
8800.00	7633.71	10879.39	179.18	95.32	26.98	53.97	275.83	318.54	7.46	
8900.00	7632.33	10782.55	179.43	92.72	26.32	52.65	276.85	319.48	7.49	
9000.00	7631.34	10683.14	179.69	90.02	25.65	51.30	278.35	320.88	7.55	
9100.00	7630.34	10580.57	179.89	87.24	24.95	49.91	279.86	322.30	7.59	
9200.00	7627.78	10477.63	180.01	84.44	24.26	48.53	279.85	322.20	7.61	
9300.00	7625.29	10377.91	179.92	81.70	23.59	47.19	279.79	322.10	7.61	
9400.00	7622.95	10279.60	179.58	79.00	22.94	45.88	279.83	322.13	7.62	
9500.00	7621.04	10179.21	179.08	76.23	22.27	44.55	280.42	322.65	7.64	
9600.00	7618.97	10080.55	178.44	73.57	21.63	43.26	280.74	323.03	7.64	
9700.00	7617.55	9982.43	177.85	70.94	20.99	41.98	281.53	324.09	7.62	
9800.00	7616.54	9883.43	177.28	68.31	20.35	40.70	282.80	325.60	7.61	
9900.00	7615.89	9785.05	176.77	65.68	19.72	39.44	284.45	327.49	7.61	
10000.00	7614.78	9680.31	176.31	62.94	19.05	38.12	285.77	328.98	7.61	
10100.00	7613.38	9582.75	175.92	60.32	18.45	36.90	286.70	330.10	7.60	
10200.00	7612.21	9482.54	175.50	57.68	17.83	35.66	287.82	331.52	7.59	
10300.00	7611.26	9384.69	175.13	55.11	17.23	34.47	289.10	333.13	7.57	
10400.00	7611.72	9290.04	174.81	52.63	16.67	33.34	291.78	336.19	7.57	
10500.00	7612.37	9187.31	174.56	49.98	16.07	32.14	294.68	339.36	7.60	
10600.00	7612.48	9085.00	174.34	47.33	15.48	30.97	297.03	342.00	7.61	
10700.00	7611.44	8982.26	174.18	44.71	14.90	29.82	298.27	343.48	7.60	
10800.00	7610.52	8883.17	174.08	42.19	14.37	28.74	299.59	345.01	7.60	
10900.00	7609.52	8781.45	174.00	39.63	13.83	27.67	300.83	346.49	7.59	
11000.00	7608.05	8682.11	173.92	37.16	13.32	26.66	301.56	347.47	7.57	
11100.00	7607.15	8583.38	173.79	34.72	12.85	25.70	302.83	349.04	7.55	
11200.00	7605.66	8477.89	173.61	32.20	12.35	24.73	303.57	350.16	7.52	
11300.00	7602.50	8373.93	173.49	29.80	11.89	23.83	302.63	349.59	7.44	
11400.00	7599.09	8274.76	173.39	27.55	11.49	23.03	301.28	348.61	7.36	
11500.00	7596.55	8179.78	173.16	25.45	11.15	22.32	300.66	348.50	7.28	
11600.00	7591.00	8059.71	173.04	23.17	10.73	21.53	298.03	346.35	7.17	
11700.00	7581.01	7947.28	173.96	21.26	10.41	20.88	291.20	339.21	7.07	
11800.00	7563.04	7814.55	176.98	19.32	10.20	20.26	280.96	327.22	7.07	
11900.00	7504.69	7632.24	186.10	17.34	10.97	19.67	251.46	297.06	6.51	
12000.00	7435.82	7504.16	199.44	16.55	11.91	19.37	189.88	248.12	4.26	
12100.00	7360.99	7393.88	220.59	16.20	13.21	19.17	105.91	195.63	2.18	

SD Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 62H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
12150.28	7326.39	7349.95	232.80	16.13	13.79	19.10	60.37	171.36	1.54	SF(Lo)

Secondary Well: Burton Flat Deep Unit 62H Pilot (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.06	4.06	264.13	0.01	0.01	0.11	5038.12	5038.69	8810.05	
100.00	100.68	104.68	264.13	0.14	0.14	2.63	5037.86	5038.68	6152.87	
200.00	186.98	190.98	264.13	0.36	0.36	2.63	5037.54	5038.80	4010.33	
300.00	273.27	277.28	264.12	0.57	0.57	2.63	5037.50	5039.19	2973.42	
400.00	357.47	361.48	264.11	0.78	0.78	2.63	5037.75	5039.88	2368.34	
500.00	440.65	444.67	264.10	0.99	0.99	2.64	5038.33	5040.89	1964.95	
600.00	532.44	536.48	264.08	1.23	1.23	2.64	5039.13	5042.15	1667.21	
700.00	630.70	634.76	264.07	1.49	1.49	2.65	5040.01	5043.51	1440.57	
800.00	729.00	733.08	264.05	1.74	1.74	2.66	5040.91	5044.90	1265.39	
900.00	829.96	834.05	264.03	2.01	2.01	2.66	5041.84	5046.31	1127.56	
1000.00	928.85	932.97	264.02	2.27	2.27	2.67	5042.72	5047.68	1017.75	
1100.00	1022.70	1026.84	264.00	2.52	2.51	2.68	5043.73	5049.16	929.74	
1200.00	1125.63	1129.80	263.98	2.79	2.78	2.69	5044.77	5050.70	852.35	
1300.00	1229.38	1233.56	263.97	3.06	3.06	2.70	5045.68	5052.11	786.58	
1400.00	1322.00	1326.20	263.95	3.31	3.30	2.71	5046.67	5053.55	733.55	
1500.00	1417.71	1421.93	263.94	3.56	3.55	2.72	5047.81	5055.17	686.89	
1600.00	1519.84	1524.08	263.93	3.82	3.81	2.73	5048.94	5056.78	644.92	
1700.00	1618.32	1622.58	263.92	4.07	4.07	2.75	5050.05	5058.37	607.84	
1800.00	1724.55	1728.83	263.91	4.34	4.34	2.76	5051.12	5059.94	573.51	
1900.00	1816.05	1820.34	263.90	4.58	4.57	2.77	5052.22	5061.50	545.16	
2000.00	1925.62	1929.93	263.89	4.86	4.86	2.78	5053.29	5063.08	517.00	
2100.00	2020.31	2024.63	263.88	5.11	5.10	2.80	5054.34	5064.60	493.50	
2200.00	2121.35	2125.69	263.87	5.37	5.36	2.81	5055.41	5066.16	471.34	
2300.00	2217.91	2222.26	263.86	5.62	5.61	2.82	5056.53	5067.76	451.54	
2400.00	2320.93	2325.30	263.85	5.89	5.88	2.84	5057.62	5069.34	432.71	
2500.00	2420.07	2424.46	263.84	6.15	6.14	2.85	5058.70	5070.90	415.78	
2600.00	2518.63	2523.03	263.83	6.40	6.39	2.87	5059.83	5072.50	400.30	
2700.00	2619.67	2624.08	263.83	6.66	6.66	2.88	5060.94	5074.09	385.79	
2800.00	2723.15	2727.58	263.82	6.93	6.92	2.90	5062.02	5075.66	372.09	
2900.00	2823.63	2828.07	263.81	7.20	7.19	2.92	5063.01	5077.14	359.53	
3000.00	2929.86	2934.32	263.80	7.47	7.46	2.94	5064.01	5078.62	347.44	
3100.00	3048.73	3053.20	263.80	7.78	7.77	2.96	5064.68	5079.83	335.25	
3200.00	3130.90	3135.37	263.79	8.00	7.99	2.98	5065.42	5081.01	325.88	
3300.00	3216.50	3220.98	263.79	8.21	8.20	3.00	5066.48	5082.52	316.91	
3400.00	3306.75	3311.25	263.79	8.44	8.43	3.02	5067.77	5084.27	308.26	
3500.00	3396.57	3401.08	263.78	8.67	8.65	3.04	5069.25	5086.20	300.10	
3600.00	3484.92	3489.45	263.78	8.89	8.88	3.06	5070.94	5088.34	292.42	
3700.00	3569.64	3574.20	263.77	9.10	9.09	3.08	5072.90	5090.74	285.36	
3800.00	3658.37	3662.96	263.77	9.32	9.31	3.10	5075.16	5093.44	278.60	
3900.00	3758.84	3763.47	263.77	9.57	9.55	3.13	5077.50	5096.24	271.86	
4000.00	3858.54	3863.21	263.77	9.81	9.80	3.16	5079.79	5098.99	265.55	
4100.00	3961.10	3965.81	263.77	10.06	10.04	3.20	5082.11	5101.77	259.52	
4200.00	4061.29	4066.04	263.78	10.30	10.28	3.23	5084.34	5104.47	253.62	
4300.00	4162.07	4166.86	263.78	10.54	10.53	3.27	5086.58	5107.19	247.86	
4400.00	4253.53	4258.35	263.78	10.76	10.74	3.30	5088.90	5109.95	242.71	
4500.00	4351.39	4356.25	263.79	10.99	10.97	3.34	5091.34	5112.86	237.65	
4600.00	4451.81	4456.72	263.79	11.23	11.21	3.38	5093.78	5115.76	232.81	
4700.00	4555.04	4559.99	263.80	11.47	11.45	3.43	5096.19	5118.63	228.18	
4800.00	4656.83	4661.83	263.81	11.71	11.68	3.48	5098.56	5121.44	223.85	
4900.00	4754.92	4759.96	263.82	11.93	11.91	3.53	5100.94	5124.25	219.83	
5000.00	4852.15	4857.23	263.83	12.16	12.13	3.58	5103.35	5127.11	215.79	
5100.00	4948.95	4954.08	263.84	12.37	12.35	3.63	5105.80	5130.02	211.83	
5200.00	5043.34	5048.52	263.86	12.59	12.56	3.69	5108.34	5133.01	208.12	
5300.00	5136.96	5142.19	263.87	12.80	12.77	3.74	5111.04	5136.14	204.58	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 62H Pilot (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
5400.00	5240.15	5245.44	263.88	13.05	13.02	3.81	5113.68	5139.26	200.94	
5500.00	5335.63	5340.96	263.88	13.29	13.26	3.87	5116.39	5142.43	197.50	
5600.00	5440.39	5445.78	263.88	13.56	13.53	3.95	5119.05	5145.58	193.95	
5700.00	5546.70	5552.14	263.88	13.84	13.81	4.02	5121.59	5148.63	190.45	
5800.00	5726.15	5731.65	263.86	14.32	14.28	4.16	5123.27	5151.01	185.72	
5900.00	5858.07	5863.58	263.85	14.64	14.60	4.27	5123.77	5152.06	182.13	
6000.00	5964.80	5970.32	263.83	14.90	14.86	4.36	5124.03	5152.79	179.13	
6100.00	6123.14	6128.66	263.83	15.21	15.16	4.50	5123.77	5153.07	175.90	
6200.00	6268.20	6273.73	263.82	15.25	15.20	4.63	5122.41	5151.96	174.31	
6300.00	6340.64	6346.17	263.83	15.24	15.20	4.70	5121.13	5150.91	172.97	
6400.00	6410.98	6416.52	263.83	15.27	15.23	4.77	5120.37	5150.41	171.49	
6500.00	6486.53	6492.07	263.84	15.34	15.30	4.85	5120.12	5150.45	169.82	
6600.00	6569.30	6574.84	78.85	15.46	15.42	4.93	5120.15	5150.85	167.76	
6700.00	6672.13	6677.68	79.15	15.64	15.60	5.04	5118.22	5149.27	165.88	
6800.00	6785.85	6791.40	80.01	15.80	15.76	5.17	5112.78	5144.15	164.00	
6900.00	6878.27	6883.82	78.19	15.92	15.88	5.28	5104.25	5135.92	162.17	
7000.00	6945.10	6950.66	62.72	16.03	15.99	5.35	5083.92	5115.97	159.63	
7100.00	6999.28	7004.84	50.61	16.14	16.10	5.42	5047.75	5080.20	156.56	
7200.00	7077.41	7082.97	42.06	16.34	16.30	5.51	4996.36	5029.34	152.47	
7300.00	7146.81	7152.38	36.07	16.51	16.48	5.60	4931.07	4964.58	148.15	
7400.00	7204.98	7210.55	31.78	16.65	16.62	5.67	4853.88	4887.79	144.17	
7500.00	7251.38	7256.95	28.47	16.76	16.72	5.73	4766.86	4801.19	139.85	
7600.00	7283.50	7289.07	24.98	16.83	16.79	5.77	4672.79	4707.34	136.25	
7700.00	7298.16	7303.74	13.97	16.86	16.82	5.79	4574.31	4609.01	132.81	
7800.00	7299.99	7305.56	248.20	16.86	16.83	5.79	4474.42	4509.13	129.92	
7900.00	7298.64	7304.21	248.59	16.86	16.83	5.79	4374.58	4409.21	127.33	
8000.00	7297.28	7302.85	248.99	16.86	16.82	5.79	4274.71	4309.30	124.57	
8100.00	7295.92	7301.49	249.39	16.85	16.82	5.79	4174.82	4209.39	121.73	
8200.00	7294.55	7300.12	249.79	16.85	16.82	5.79	4074.95	4109.49	118.96	
8300.00	7293.17	7298.74	250.20	16.85	16.81	5.78	3975.09	4009.59	116.22	
8400.00	7291.78	7297.35	250.61	16.85	16.81	5.78	3875.26	3909.70	113.52	
8500.00	7290.39	7295.96	251.02	16.84	16.81	5.78	3775.39	3809.81	110.70	
8600.00	7288.99	7294.56	251.44	16.84	16.80	5.78	3675.53	3709.93	107.87	
8700.00	7287.58	7293.15	251.86	16.84	16.80	5.78	3575.69	3610.05	105.06	
8800.00	7286.17	7291.74	252.29	16.83	16.80	5.77	3475.89	3510.18	102.37	
8900.00	7284.75	7290.32	252.72	16.83	16.80	5.77	3376.02	3410.32	99.45	
9000.00	7283.19	7288.76	253.20	16.83	16.79	5.77	3276.22	3310.46	96.70	
9100.00	7281.60	7287.17	253.69	16.82	16.79	5.77	3176.38	3210.61	93.80	
9200.00	7280.01	7285.57	254.18	16.82	16.79	5.77	3076.54	3110.77	90.88	
9300.00	7278.42	7283.99	254.67	16.82	16.78	5.76	2976.75	3010.94	88.06	
9400.00	7276.83	7282.40	255.16	16.81	16.78	5.76	2876.96	2911.12	85.21	
9500.00	7275.25	7280.82	255.65	16.81	16.77	5.76	2777.15	2811.32	82.28	
9600.00	7273.67	7279.24	256.15	16.81	16.77	5.76	2677.37	2711.52	79.40	
9700.00	7272.09	7277.66	256.65	16.80	16.77	5.76	2577.62	2611.74	76.53	
9800.00	7270.52	7276.09	257.14	16.80	16.76	5.75	2477.88	2511.98	73.67	
9900.00	7268.95	7274.52	257.64	16.80	16.76	5.75	2378.17	2412.24	70.80	
10000.00	7267.38	7272.95	258.14	16.79	16.76	5.75	2278.41	2312.52	67.81	
10100.00	7265.81	7271.38	258.64	16.79	16.75	5.75	2178.68	2212.82	64.83	
10200.00	7264.25	7269.82	259.15	16.79	16.75	5.75	2078.98	2113.15	61.85	
10300.00	7262.69	7268.26	259.65	16.78	16.75	5.74	1979.31	2013.51	58.88	
10400.00	7261.13	7266.70	260.15	16.78	16.74	5.74	1879.58	1913.90	55.77	
10500.00	7259.57	7265.14	260.66	16.78	16.74	5.74	1779.89	1814.34	52.66	
10600.00	7258.02	7263.59	261.16	16.77	16.74	5.74	1680.22	1714.83	49.54	
10700.00	7256.47	7262.04	261.67	16.77	16.73	5.74	1580.60	1615.38	46.44	
10800.00	7254.92	7260.49	262.17	16.76	16.73	5.73	1480.90	1516.00	43.20	
10900.00	7253.38	7258.95	262.68	16.76	16.73	5.73	1381.21	1416.70	39.91	
11000.00	7251.84	7257.40	263.18	16.76	16.72	5.73	1281.56	1317.51	36.65	
11100.00	7250.30	7255.86	263.69	16.75	16.72	5.73	1181.78	1218.45	33.23	

5D Anti-Collision Report

Secondary Well: Burton Flat Deep Unit 62H Pilot (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
11200.00	7248.76	7254.33	264.19	16.75	16.72	5.73	1082.01	1119.56	29.82	
11300.00	7247.22	7252.79	264.70	16.75	16.71	5.72	982.10	1020.87	26.33	
11400.00	7245.69	7251.26	265.21	16.74	16.71	5.72	882.04	922.47	22.81	
11500.00	7244.16	7249.73	265.71	16.74	16.70	5.72	781.78	824.45	19.32	
11600.00	7242.64	7248.20	266.22	16.74	16.70	5.72	681.27	726.97	15.91	
11700.00	7241.11	7246.68	266.72	16.73	16.70	5.72	580.29	630.27	12.61	
11800.00	7239.59	7245.16	267.23	16.73	16.69	5.72	478.90	534.78	9.57	
11900.00	7238.07	7243.64	267.73	16.73	16.69	5.71	376.34	441.29	6.79	
12000.00	7236.55	7242.12	268.24	16.72	16.69	5.71	273.13	351.40	4.49	
12100.00	7235.04	7240.61	268.74	16.72	16.68	5.71	168.93	268.74	2.69	
12150.28	7234.28	7239.85	269.00	16.72	16.68	5.71	118.06	232.39	2.03	

**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.1.0.0

Report Date: August 13, 2015
Job Number: _____
Customer: Devon Energy
Well Name: Burton Flat Deep Unit 82H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM Nad83 NME
Block: _____
Engineer: RWJ

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 548868.80 US Survey Foot	Latitude: 32.50877 Degree
East: 597131.30 US Survey Foot	Longitude: -104.15234 Degree
Convergence: 0.10°	
Declination: 7.55°	
Total Correction: 7.45°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation = 0 m
Latitude = 32° 30' 31.57" N
Longitude = 104° 09' 08.42" W

Magnetic Declination = 7.55 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6621
Local Field Strength = 48303 nT	Magnetic Vector X = 23742 nT
Magnetic Dip = 60.28 deg	Magnetic Vector Y = 3145 nT
Magnetic Model = bggm2015.dat	Magnetic Vector Z = 41948 nT
Run Date = November 15, 2015	Magnetic Vector H = 23949 nT

Signed: _____ Date: _____

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