

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



30-015-34028

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify PLUG BACK TO CHANGE ZONES

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FEB 01 2006

OCU-AM-1201A

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate and complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Susan Becnel
 Print or Type Name

Susan Becnel
 Signature

Regulatory Analyst 01/30/2006
 Title Date

becns1@bp.com
 e-mail Address



Permian Basin Asset

Susan Becnel
WL1-6.115
281-366-1842 (direct)
281-366-7688 (FAX)
becns1@bp.com

P. O. Box 3092
Houston, Texas 77253-3092
501 Westlake Park Boulevard
Houston, Texas 77079

January 30, 2006

Mr. Michael Stogner
New Mexico Oil Conservation Division
1220 South St Francis Drive
Santa Fe, NM 87505

Application for Non-Standard Well Location
Slider "6" State #1
E/2 Section 6-T18S-R28E
Empire Wolfcamp
Eddy County, New Mexico

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FEB 01 2006

UD-ARTEA

BP America Production Company respectfully requests an administrative approval for a non-standard well location.

The directionally drilled Slider 6 State #1 B 3S API No. 30-015-34028 was drilled at a legal surface location of 2285' FNL and 1366' FEL and a legal bottom hole location of 1686' FNL & 1533' FEL. Its targeted gas formation was the Illinois Camp; Morrow, North. Since it was a dry hole, it was shut-in for further evaluation.

It is now BP's intent to plug back and perforate the Empire Wolfcamp oil formation. The field rules require a minimum distance of 330' from the Unit line. The top of Empire Wolfcamp formation is 168' from the Unit line; therefore the new perms would be added to the portion of the wellbore that is approximately 162' or less outside the drilling window.

To aid in your review attached is a C-102, 9 Section Plat and the Directional Survey. The top of the Empire Wolfcamp is 6909' MD/6897' TVD; the base of the Empire Wolfcamp is 8147' MD/8131' TVD. The proposed perms will be between 7030' MD/ 7020' TVD and 7250' MD/7237' TVD.

Your attention to this matter is greatly appreciated. Should you have any questions concerning this application please do not hesitate to call me at 281-366-1842.

Sincerely,

A handwritten signature in cursive script that reads "Susan Becnel".

Susan Becnel

cc: Tim Gum, Supervisor
NMOCD District II
1301 W. Grand Avenue
Artesia, NM 88210

There are no offset owners/operators within the 9-section plat that are producing from the Empire Wolfcamp formation; therefore, no notifications were required.

A handwritten signature in cursive script, reading "Susan Becnel".

Susan Becnel
BP America
Regulatory Analyst
281-366-1842

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer 80, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Grande Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34028	Pool Code 22420	Property Name SLIDER STATE "6"	Well Number 1
Property Code 34696	Operator Name BP AMERICA PRODUCTION COMPANY		Elevation 3662'
OGED No. 000778			

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	6	18 S	28 E		2285	NORTH	1366	EAST	EDDY

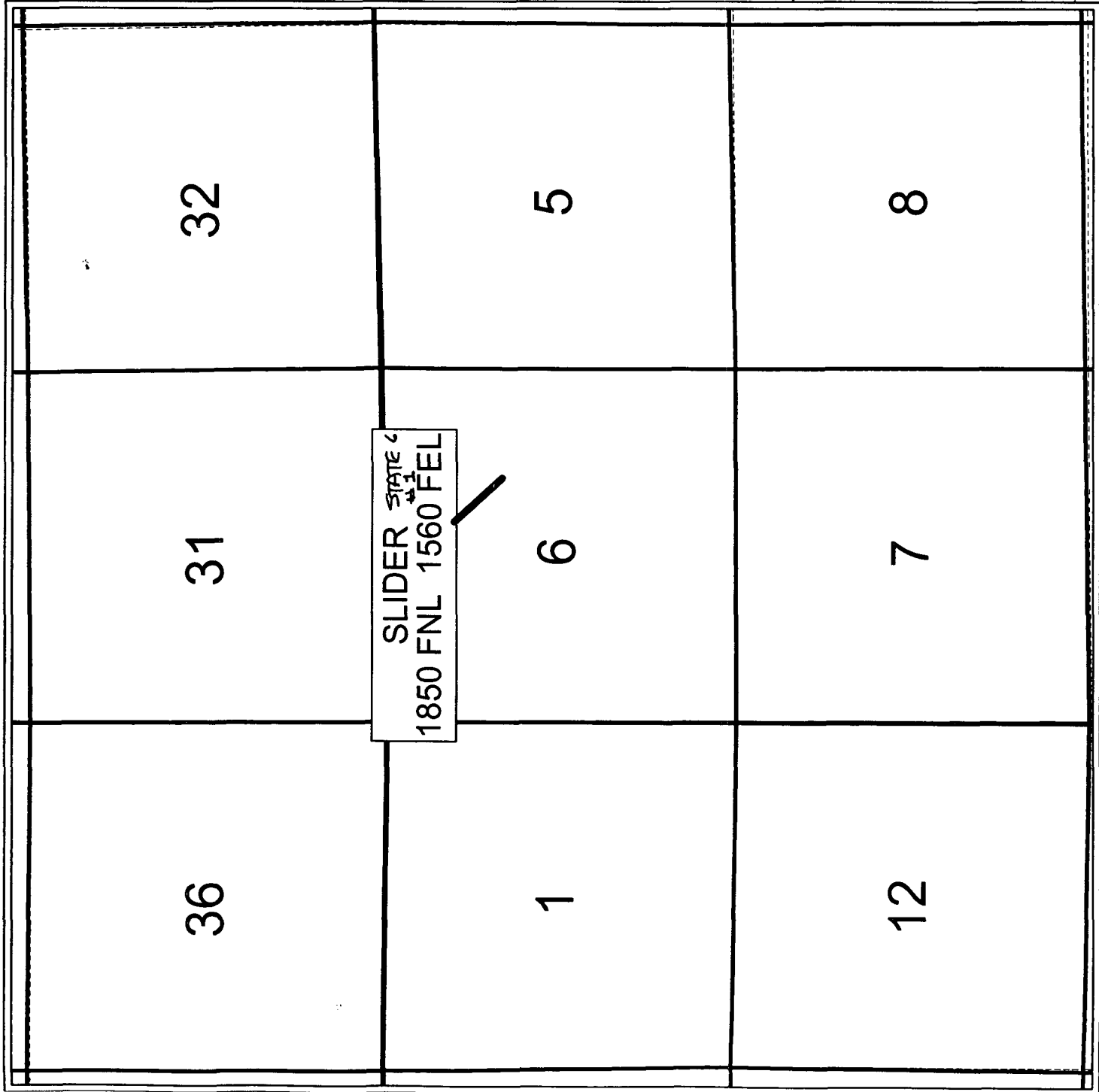
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	6	18 S	28 E		1682	NORTH	1523	EAST	EDDY

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

NOTE: 1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values. 2) Geodetic Coordinates shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1866). Reference Stations - "WHITE SANDS" - CORS (AF9528), "ROSWELL" - CORS (DG6517) and "ODESSA RRP2" - CORS (DF5393).	Geodetic Coordinate Latitude = 32°46'43.38" N Longitude = 104°12'38.30" W Plane Coordinate X = 537,710.0 Y = 647,030.0 Geodetic Coordinate Latitude = 32°46'37.45" N Longitude = 104°12'36.47" W Plane Coordinate X = 537,866.6 Y = 646,430.6 Bottom Hole Location 1523' 3660.0' 3666.6' Surface Location 1366' 3652.3' Top of penetration in Empire Wolfcamp RECEIVED FEB 01 2006 NOD-MATEMIA	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Susan Beemel</u> Signature SUSAN BECNEL Printed Name <u>Regulatory Cons.</u> Title <u>January 10, 2006</u> Date 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. November 30, 2004 Date Surveyed Signature & Seal of Professional Surveyor <u>[Signature]</u> W.O. Num. 2004-0883 Certificate No. MACON McDONALD 12185
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BP Permian

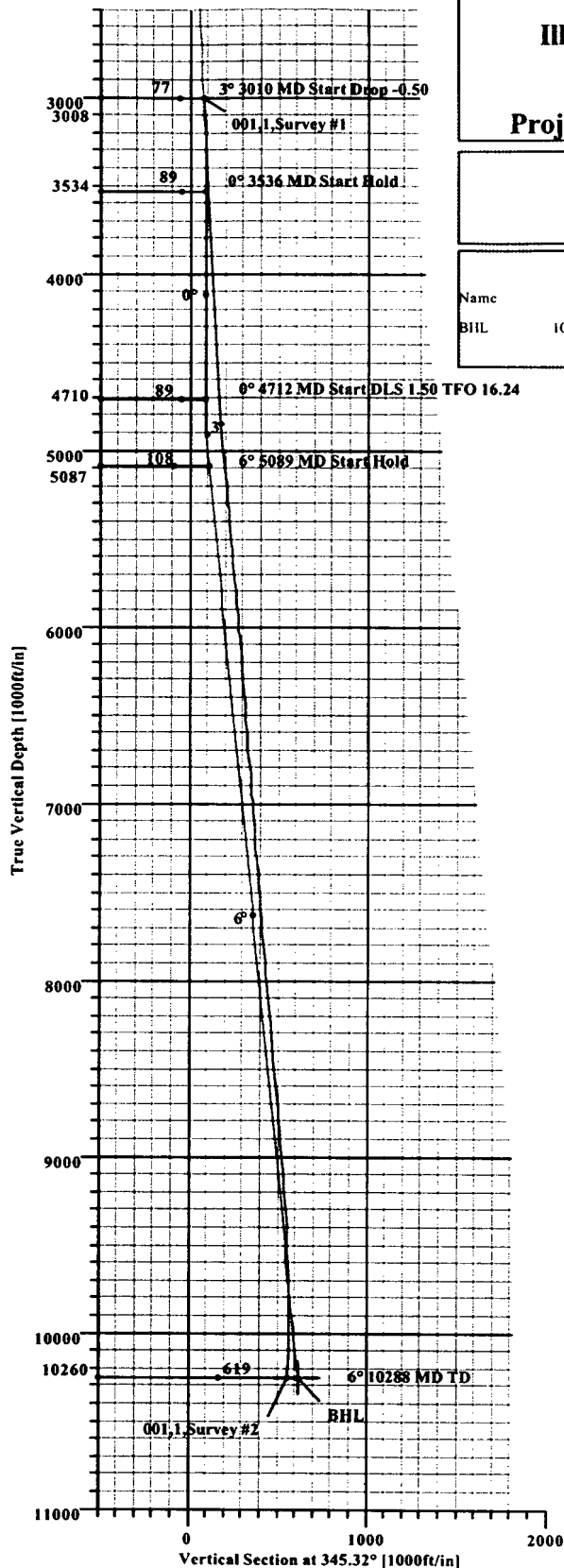
17-18 South/27-28 Eddy Co., NM
Slider Area Wolfcamp Production Base Map



WELL SYMBOLS

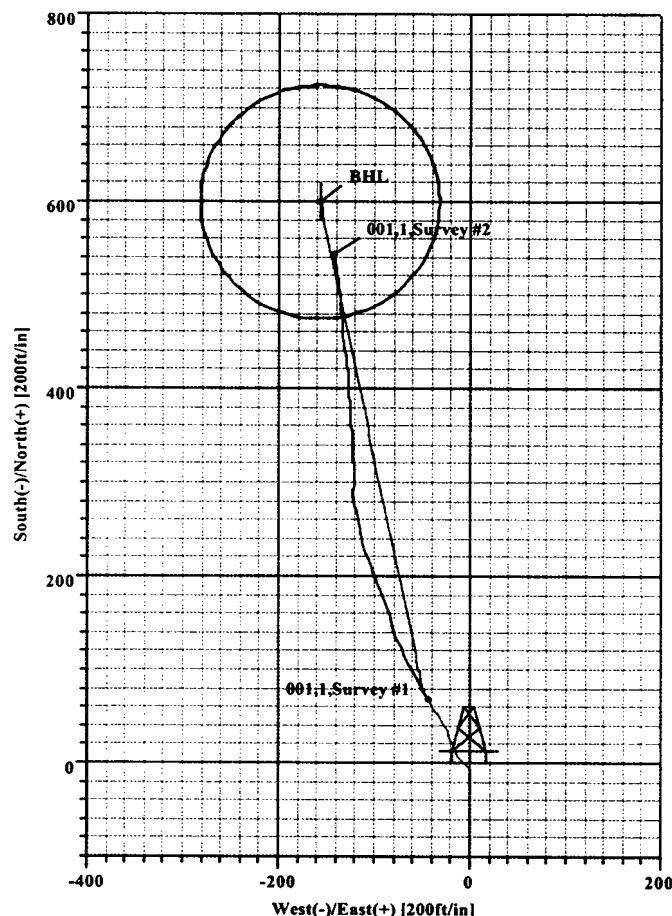
January 25, 2006

BP America
Illinois Camp - Morrow North
Slider '6' State 001
Plan Vs Actual &
Projection to 10260' TVD Included



WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
001	0.00	0.00	646430.86	537866.62	32°46'37.450N	104°12'36.470W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
BHL	10260.00	599.13	-156.95	647029.95	537709.69	32°46'43.380N



FIELD DETAILS	
Illinois Camp : Morrow, North	
Sec 6, T18S, R28E	
Geodetic System: US State Plane Coordinate System 1927	
Ellipsoid: NAD27 (Clarke 1866)	
Zone: New Mexico, Eastern Zone	
Magnetic Model: igr2005	
System Datum: Mean Sea Level	
Local North: Grid North	

Plan: bp_r2	Created By: Weatherford	Date: 6/30/2005
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Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	3010.00	2.63	332.06	3008.28	68.36	-43.61	0.00	0.00	77.18	
2	3536.00	0.00	332.06	3534.09	79.02	-49.26	0.50	180.00	88.93	
3	4711.91	0.00	332.06	4710.00	79.02	-49.26	0.00	332.06	88.93	
4	5089.10	5.66	348.30	5086.58	97.24	-53.04	1.50	16.24	107.51	
5	10287.85	5.66	348.30	10260.00	599.13	-156.95	0.00	0.00	619.35	BHL

SITE DETAILS	
Slider "6" State 001	
Site Centre Latitude: 32°46'37.450N	
Longitude: 104°12'36.470W	
Water Depth: 0.00	
Positional Uncertainty: 0.00	
Convergence: 0.07	

Company: BP America (from Houston)	Date: 10/8/2005	Time: 15:10:13	Page: 1
Field: Illinois Camp, Morrow, North	Coordinate (NE) Reference: Well 001, Grid North	Well: 001	Grid North
Site: Slider "6" State 001	Vertical (TVD) Reference: SITE 0.01	Vertical (TVD) Reference: SITE 0.01	
Well: 001	Section (VS) Reference: User (0.00N, 0.00E, 345.32Az)	Section (VS) Reference: User (0.00N, 0.00E, 345.32Az)	
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Survey Calculation Method: Minimum Curvature	Db: Sybase

Field: Illinois Camp, Morrow, North

Sec 6, T18S, R28E

Map System: US State Plane Coordinate System 1927

Map Zone: New Mexico, Eastern Zone

Geo Datum: NAD27 (Clarke 1866)

Coordinate System: Well Centre

Sys Datum: Mean Sea Level

Geomagnetic Model: igrf2005

Site: Slider "6" State 001

Site Position: Northing: 646430.86 ft Latitude: 32 46 37.450 N

From: Geographic Easting: 537866.62 ft Longitude: 104 12 36.470 W

Position Uncertainty: 0.00 ft North Reference: Grid

Ground Level: 0.00 ft Grid Convergence: 0.07 deg

Well: 001 Slot Name:

Well Position: +N/-S 0.00 ft Northing: 646430.86 ft Latitude: 32 46 37.450 N

+E/-W 0.00 ft Easting: 537866.62 ft Longitude: 104 12 36.470 W

Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 0.00 ft

Magnetic Data: 6/15/2005

Field Strength: 49522 nT

Vertical Section: Depth From (TVD) +N/-S

ft ft

0.00 0.00

Drilled From: Surface

Tie-on Depth: 0.00 ft

Above System Datum: Mean Sea Level

Declination: 8.63 deg

Mag Dip Angle: 60.73 deg

+E/-W Direction

ft deg

0.00 0.00 0.00 345.32

Survey: Survey #1 Start Date: 6/30/2005

Company: Weatherford International

Engineer: Employee of

Tool: Tied-to: From Surface

Survey: Survey #1

MD	Incl	Azim	TVD	N/S	E/W	Map Northing	Map Easting	Latitude	Longitude
ft	deg	deg	ft	ft	ft	ft	ft	Deg Min Sec	Deg Min Sec
0.00	0.00	0.00	0.00	0.00	0.00	646430.86	537866.62	32 46 37.450 N	104 12 36.470 W
100.00	0.37	137.96	100.00	-0.24	0.22	646430.62	537866.84	32 46 37.448 N	104 12 36.467 W
200.00	0.50	148.70	200.00	-0.85	0.66	646430.01	537867.28	32 46 37.442 N	104 12 36.462 W
300.00	0.40	165.72	299.99	-1.56	0.97	646429.30	537867.59	32 46 37.435 N	104 12 36.459 W
400.00	0.57	193.18	399.99	-2.39	0.94	646428.48	537867.57	32 46 37.426 N	104 12 36.459 W
500.00	0.61	221.68	499.98	-3.27	0.48	646427.60	537867.10	32 46 37.418 N	104 12 36.464 W
600.00	0.41	238.27	599.98	-3.85	-0.18	646427.01	537866.44	32 46 37.412 N	104 12 36.472 W
700.00	0.60	279.99	699.98	-3.95	-1.00	646426.91	537865.62	32 46 37.411 N	104 12 36.482 W
800.00	0.75	294.13	799.97	-3.59	-2.11	646427.27	537864.51	32 46 37.414 N	104 12 36.495 W
900.00	1.03	308.27	899.96	-2.77	-3.42	646428.10	537863.20	32 46 37.423 N	104 12 36.510 W
1000.00	1.18	311.17	999.94	-1.53	-4.90	646429.33	537861.72	32 46 37.435 N	104 12 36.527 W
1100.00	1.30	323.47	1099.92	0.06	-6.35	646430.92	537860.27	32 46 37.451 N	104 12 36.544 W
1200.00	1.76	322.06	1199.88	2.18	-7.97	646433.04	537858.65	32 46 37.472 N	104 12 36.563 W
1300.00	1.74	324.45	1299.83	4.62	-9.79	646435.49	537856.83	32 46 37.496 N	104 12 36.585 W
1400.00	1.92	321.29	1399.78	7.17	-11.72	646438.03	537854.90	32 46 37.521 N	104 12 36.607 W
1500.00	1.90	325.18	1499.73	9.83	-13.72	646440.70	537852.90	32 46 37.547 N	104 12 36.631 W
1600.00	2.23	338.78	1599.66	13.01	-15.37	646443.87	537851.25	32 46 37.579 N	104 12 36.650 W
1700.00	2.37	333.23	1699.58	18.67	-17.01	646447.53	537849.62	32 46 37.615 N	104 12 36.669 W
1800.00	2.68	330.31	1799.49	20.55	-19.09	646451.41	537847.53	32 46 37.654 N	104 12 36.693 W
1900.00	2.59	336.26	1899.38	24.65	-21.16	646455.51	537845.46	32 46 37.694 N	104 12 36.718 W
2000.00	2.51	345.30	1999.28	28.83	-22.63	646459.69	537844.00	32 46 37.736 N	104 12 36.735 W
2100.00	2.45	345.80	2099.19	33.02	-23.71	646463.88	537842.92	32 46 37.777 N	104 12 36.747 W
2200.00	2.40	327.29	2199.10	36.86	-25.36	646467.72	537841.26	32 46 37.815 N	104 12 36.767 W

Company:	BP America (from Houston)	Date:	10/6/2005	Time:	15:10:13	Page:	2
Field:	Illinois Camp, Morrow, North	Co-ordinate (NE) Reference:	Well: 001	Grid:	North		
Sls:	Slur: 6; State: 001	Vertical (TVD) Reference:	SITE: 0.0				
Well:	001	Section (VS) Reference:	User: (0.00N,0.00E,345.32Az)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey: Survey #1

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec			Longitude Deg Min Sec		
2300.00	2.47	327.31	2299.01	40.43	-27.66	646471.29	537838.97	32	46	37.850 N	104	12	36.793 W
2400.00	2.70	333.10	2398.91	44.34	-29.89	646475.21	537836.74	32	46	37.889 N	104	12	36.819 W
2500.00	2.60	332.32	2498.80	48.45	-32.01	646479.31	537834.62	32	46	37.930 N	104	12	36.844 W
2600.00	2.50	327.30	2598.70	52.30	-34.24	646483.16	537832.39	32	46	37.968 N	104	12	36.870 W
2700.00	2.70	325.41	2698.60	56.07	-36.75	646486.93	537829.87	32	46	38.005 N	104	12	36.900 W
2800.00	2.54	332.35	2798.49	59.97	-39.12	646490.83	537827.51	32	46	38.044 N	104	12	36.927 W
2900.00	2.62	332.19	2898.39	63.96	-41.21	646494.82	537825.41	32	46	38.083 N	104	12	36.952 W
3000.00	2.60	330.70	2998.29	67.96	-43.39	646498.82	537823.23	32	46	38.123 N	104	12	36.977 W
3010.00	2.63	332.06	3008.28	68.36	-43.61	646499.22	537823.02	32	46	38.127 N	104	12	36.980 W

Targets

Name	Description	TVD	+N/-S	+E/-W	Map Northing	Map Easting	Latitude Deg Min Sec			Longitude Deg Min Sec		
BHL		10260.00	599.13	-156.95	647029.95	537709.69	32	46	43.380 N	104	12	38.300 W
-Circle (Radius: 125)												

Annotation

MD ft	TVD ft	
9727.00	0.00	Drill 600' Conventional
10281.18	0.00	Projection

Company: BP America (from Houston)	Date: 10/6/2005	Time: 15:12:57	Page: 1
Field: Illinois Camp; Morrow, North	Coordinate (NE) Reference:	Well: 001	Grid North
Site: Slider "6" State 001	Vertical (TVD) Reference:	SITE 0.0	
Well: 001	Section (VS) Reference:	User: (0.00N 0.00E 345.32A2)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Dr: Sybase

Field: Illinois Camp; Morrow, North

Sec 6, T18S, R28E

Map System: US State Plane Coordinate System 1927

Map Zone:

New Mexico, Eastern Zone

Geo Datum: NAD27 (Clarke 1866)

Coordinate System:

Well Centre

Sys Datum: Mean Sea Level

Geomagnetic Model:

igr2005

Site: Slider "6" State 001

Site Position:	Geographic	Northing:	646430.86 ft	Latitude:	32 46 37.450 N
From:		Easting:	537866.62 ft	Longitude:	104 12 36.470 W
Position Uncertainty:	0.00 ft			North Reference:	Grid
Ground Level:	0.00 ft			Grid Convergence:	0.07 deg

Well: 001

Slot Name:

Well Position:	+N-S	0.00 ft	Northing:	646430.86 ft	Latitude:	32 46 37.450 N
	+E-W	0.00 ft	Easting:	537866.62 ft	Longitude:	104 12 36.470 W
Position Uncertainty:		0.00 ft				

Wellpath: 1

Drilled From:

Surface

Current Datum:	SITE	Height	0.00 ft	Tie-on Depth:	0.00 ft
Magnetic Data:	6/15/2005			Above System Datum:	Mean Sea Level
Field Strength:	49522 nT			Declination:	8.63 deg
Vertical Section:	Depth From (TVD)	+N-S		Mag Dip Angle:	60.73 deg
	ft	ft		+E-W	Direction
				ft	deg
	0.00	0.00		0.00	345.32

Survey: Actuals

Start Date:

7/26/2005

Company: Weatherford International, Inc *

Engineer:

Ybes Ortiz

Tool:

Tied-to:

From: Survey #1

Survey: Actuals +

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	Latitude Deg-Min-Sec	Longitude Deg-Min-Sec
3010.00	2.63	332.06	3008.28	68.36	-43.61	646499.22	537823.02	32 46 38.127 N	104 12 36.980 W
3160.00	2.60	330.50	3158.12	74.36	-46.90	646505.22	537819.73	32 46 38.186 N	104 12 37.018 W
3286.00	2.80	335.20	3283.98	79.74	-49.64	646510.60	537816.98	32 46 38.240 N	104 12 37.050 W
3474.00	2.90	328.50	3471.74	88.11	-54.12	646518.97	537812.51	32 46 38.322 N	104 12 37.103 W
3663.00	3.00	331.20	3660.49	96.52	-59.00	646527.38	537807.63	32 46 38.406 N	104 12 37.160 W
3854.00	3.00	332.50	3851.23	105.34	-63.72	646538.19	537802.91	32 46 38.493 N	104 12 37.215 W
4042.00	3.00	337.70	4038.97	114.25	-67.86	646545.11	537798.77	32 46 38.581 N	104 12 37.263 W
4231.00	3.10	335.60	4227.70	123.48	-71.84	646554.34	537794.78	32 46 38.673 N	104 12 37.310 W
4424.00	3.40	335.80	4420.39	133.45	-76.35	646564.31	537790.28	32 46 38.771 N	104 12 37.362 W
4615.00	3.90	343.80	4611.00	144.86	-80.48	646575.71	537786.15	32 46 38.884 N	104 12 37.411 W
4804.00	4.10	342.60	4799.54	157.48	-84.29	646588.33	537782.34	32 46 39.009 N	104 12 37.455 W
4956.00	4.80	342.20	4951.08	168.72	-87.86	646599.57	537778.77	32 46 39.120 N	104 12 37.497 W
5148.00	5.40	339.40	5142.32	184.82	-93.50	646615.67	537773.13	32 46 39.280 N	104 12 37.563 W
5211.00	5.40	338.90	5205.04	190.36	-95.61	646621.21	537771.02	32 46 39.335 N	104 12 37.587 W
5280.00	5.50	338.00	5273.73	196.46	-98.01	646627.31	537768.62	32 46 39.395 N	104 12 37.615 W
5341.00	5.90	338.70	5334.43	202.09	-100.25	646632.94	537766.38	32 46 39.451 N	104 12 37.641 W
5373.00	6.00	339.40	5366.26	205.19	-101.43	646636.03	537765.20	32 46 39.481 N	104 12 37.655 W
5399.00	5.40	342.00	5392.13	207.62	-102.29	646638.47	537764.34	32 46 39.506 N	104 12 37.665 W
5527.00	5.10	336.70	5519.59	218.58	-106.40	646649.42	537760.23	32 46 39.614 N	104 12 37.713 W
5591.00	4.60	337.60	5583.36	223.56	-108.50	646654.41	537758.13	32 46 39.663 N	104 12 37.738 W
5650.00	4.40	348.50	5642.18	227.97	-109.86	646658.81	537756.77	32 46 39.707 N	104 12 37.754 W
5748.00	4.80	340.10	5739.87	235.51	-112.00	646666.35	537754.63	32 46 39.782 N	104 12 37.779 W
5810.00	4.40	344.60	5801.67	240.24	-113.52	646671.08	537753.11	32 46 39.828 N	104 12 37.796 W

Company: BP America (from Houston) Date: 10/6/2005 Time: 15:12:57
 Field: Illinois Camp Morrow North Co-ordinate (NE) Reference: Well: 001 Grd North
 Site: Side 6 State 001 Vertical (TVD) Reference: SITE 0.0
 Well: 001 Section (VS) Reference: User: (0.00N,0.00E,345.32Az)
 Wellpath: Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: ACTUALS

MD	Incl	Azim	TVD	N/S	E/W	Map	Map	Latitude	Longitude
ft	deg	deg	ft	ft	ft	North	East	Deg Min Sec	Deg Min Sec
5874.00	4.40	350.10	5865.48	245.02	-114.59	646675.87	537752.04	32 46 39.876 N	104 12 37.809 W
5938.00	4.80	354.30	5929.27	250.11	-115.28	646680.95	537751.35	32 46 39.926 N	104 12 37.817 W
6034.00	4.90	346.80	6024.93	258.10	-116.61	646688.94	537750.02	32 46 40.005 N	104 12 37.832 W
6065.00	4.90	345.50	6055.82	260.67	-117.25	646691.51	537749.38	32 46 40.031 N	104 12 37.840 W
6190.00	4.60	349.90	6180.39	270.77	-119.46	646701.61	537747.17	32 46 40.131 N	104 12 37.865 W
6257.00	4.50	349.60	6247.18	276.00	-120.41	646706.84	537746.22	32 46 40.182 N	104 12 37.876 W
6378.00	4.80	346.94	6367.78	285.60	-122.41	646716.44	537744.22	32 46 40.277 N	104 12 37.900 W
6454.00	3.80	9.60	6443.57	291.18	-122.71	646722.02	537743.92	32 46 40.333 N	104 12 37.903 W
6529.00	4.40	12.30	6518.38	296.44	-121.68	646727.28	537744.95	32 46 40.385 N	104 12 37.891 W
6551.00	4.50	12.30	6540.31	298.11	-121.32	646728.95	537745.31	32 46 40.401 N	104 12 37.887 W
6620.00	5.00	1.70	6609.07	303.76	-120.65	646734.60	537745.98	32 46 40.457 N	104 12 37.879 W
6715.00	5.60	356.30	6703.67	312.53	-120.83	646743.36	537745.80	32 46 40.544 N	104 12 37.881 W
6779.00	5.50	354.30	6767.37	318.69	-121.33	646749.53	537745.30	32 46 40.605 N	104 12 37.887 W
6842.00	4.80	353.10	6830.11	324.31	-121.95	646755.15	537744.68	32 46 40.660 N	104 12 37.894 W
6934.00	4.10	353.30	6921.84	331.40	-122.80	646762.24	537743.83	32 46 40.731 N	104 12 37.904 W
6961.00	4.00	353.60	6948.77	333.30	-123.01	646764.13	537743.62	32 46 40.749 N	104 12 37.906 W
7000.00	4.00	352.90	6987.67	336.00	-123.33	646766.83	537743.30	32 46 40.776 N	104 12 37.910 W
7064.00	4.00	356.30	7051.52	340.44	-123.75	646771.27	537742.88	32 46 40.820 N	104 12 37.915 W
7128.00	3.90	359.20	7115.37	344.84	-123.93	646775.68	537742.70	32 46 40.864 N	104 12 37.917 W
7192.00	4.20	3.50	7179.21	349.36	-123.82	646780.19	537742.82	32 46 40.908 N	104 12 37.915 W
7254.00	4.80	356.10	7241.02	354.21	-123.85	646785.05	537742.78	32 46 40.956 N	104 12 37.916 W
7318.00	5.40	354.30	7304.76	359.88	-124.34	646790.71	537742.30	32 46 41.012 N	104 12 37.921 W
7412.00	5.40	359.60	7398.34	368.71	-124.81	646799.54	537741.83	32 46 41.100 N	104 12 37.927 W
7476.00	5.40	1.50	7462.06	374.73	-124.75	646805.56	537741.88	32 46 41.159 N	104 12 37.926 W
7538.00	5.10	356.10	7523.80	380.39	-124.86	646811.22	537741.77	32 46 41.215 N	104 12 37.927 W
7602.00	4.80	350.60	7587.56	385.87	-125.49	646816.70	537741.14	32 46 41.270 N	104 12 37.934 W
7666.00	4.40	351.90	7651.36	390.95	-126.27	646821.78	537740.36	32 46 41.320 N	104 12 37.944 W
7744.00	4.50	353.10	7729.12	396.95	-127.06	646827.78	537739.57	32 46 41.379 N	104 12 37.953 W
7825.00	4.70	357.30	7809.86	403.42	-127.60	646834.24	537739.03	32 46 41.443 N	104 12 37.959 W
7921.00	4.80	2.60	7905.53	411.36	-127.60	646842.18	537739.03	32 46 41.522 N	104 12 37.959 W
7982.00	4.90	353.40	7966.31	416.49	-127.79	646847.32	537738.85	32 46 41.573 N	104 12 37.961 W
8078.00	4.80	351.90	8061.97	424.54	-128.82	646855.37	537737.81	32 46 41.652 N	104 12 37.973 W
8173.00	5.00	352.60	8156.62	432.58	-129.92	646863.41	537736.72	32 46 41.732 N	104 12 37.986 W
8269.00	5.00	353.40	8252.26	440.89	-130.94	646871.71	537735.70	32 46 41.814 N	104 12 37.998 W
8460.00	5.10	355.00	8442.52	457.61	-132.63	646888.44	537734.00	32 46 41.979 N	104 12 38.017 W
8558.00	5.00	355.70	8538.14	466.04	-133.32	646896.86	537733.31	32 46 42.063 N	104 12 38.025 W
8651.00	5.00	355.40	8632.78	474.29	-133.96	646905.11	537732.67	32 46 42.144 N	104 12 38.032 W
8746.00	5.20	357.30	8727.41	482.72	-134.50	646913.54	537732.14	32 46 42.228 N	104 12 38.039 W
8810.00	5.30	357.00	8791.14	488.57	-134.79	646919.39	537731.85	32 46 42.286 N	104 12 38.042 W
8872.00	5.40	357.10	8852.87	494.34	-135.09	646925.16	537731.55	32 46 42.343 N	104 12 38.045 W
8935.00	4.90	352.70	8915.61	499.97	-135.58	646930.79	537731.06	32 46 42.399 N	104 12 38.051 W
9031.00	4.80	354.50	9011.27	508.03	-136.48	646938.85	537730.15	32 46 42.478 N	104 12 38.062 W
9127.00	4.60	348.40	9106.95	515.80	-137.64	646946.62	537728.99	32 46 42.555 N	104 12 38.075 W
9200.00	4.52	348.65	9179.72	521.49	-138.80	646952.31	537727.84	32 46 42.612 N	104 12 38.088 W
9300.00	4.11	353.65	9279.43	528.92	-139.97	646959.73	537726.67	32 46 42.685 N	104 12 38.102 W
9400.00	3.55	354.50	9379.21	535.56	-140.66	646966.38	537725.97	32 46 42.751 N	104 12 38.110 W
9500.00	2.70	352.19	9479.06	540.97	-141.28	646971.79	537725.36	32 46 42.804 N	104 12 38.117 W
9558.00	2.24	358.65	9537.01	543.46	-141.49	646974.28	537725.14	32 46 42.829 N	104 12 38.120 W
9727.00	1.19	358.60	9705.93	548.52	-141.61	646979.34	537725.02	32 46 42.879 N	104 12 38.121 W
10281.18	2.24	178.77	10260.00	543.46	-141.52	646974.28	537725.11	32 46 42.829 N	104 12 38.120 W

Top of
 Morrow
 9897'

Company: BP America (from Houston)	Date: 10/6/2005	Time: 15:12:57	Page: 3
Field: Illinois Camp, Morrow, North	Co-ordinate (NE) Reference:	Well: 001, Grid North	
Site: Sloter 6, State 001	Vertical (TVD) Reference:	SITE 0.0	
Well: 001	Section (VS) Reference:	User (0.00N 0.00E 345.32Az)	
Wellpath:	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Targets

Name	Description	TVD	N-S	E-W	Map Northing	Map Easting	Latitude	Longitude
	Dip	Dir.	ft	ft	ft	ft	Deg Min Sec	Deg Min Sec
BHL			10260.00	599.13	-156.95	647029.95	537709.69	32 46 43.380 N 104 12 38.300 W
-Circle (Radius: 125)								

Annotation

1686' FNL 1680' FEL

TMD	TVD	
ft	ft	
9727.00	9705.93	Drill 600' Conventional
10281.18	10260.00	Projection

21'