District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

RECEIVED
FEB 18 2013
NMOCD ARTESIA

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

Form C-101
Revised November 14, 2012

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
Chevron USA, Inc. 15 Smith Road Midland, TX 79705	4323
	3. API Number: 30-015-41132

4. Property Code	5. Property Name	6. Well No.
39730	COOKSEY 2 25 28 STATE	1H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	2	25 S	28 E		600'	S	150'	E	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	2	25 S	28 E		600'	S	330'	W	EDDY

9. Pool Information

Pool Name	Pool Code
SAN LORENZO; BONE SPRING, NORTH	53610

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	O	R	S	2946' GR
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	12,906'	Bone Spring	TBD	

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
No Records	No Records	>1 MILE

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17 1/2"	13 3/8"	48#	500'	600	0
Intermediate	12 1/4"	9 5/8"	40#	2550'	1000	0'
Production	8 3/4"	5 1/2"	17#	12,906'	1400	2050'

Casing/Cement Program: Additional Comments

SEE ATTACHMENTS FOR DETAILED INFORMATION.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Shaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.
Signature: Bryan Arrant

Printed name: Bryan Arrant (Agent for Chevron)

Title: Regulatory Specialist II

E-mail Address: bryan.arrant@chk.com

Date: 02/14/2013 Phone: (405)935-3782

OIL CONSERVATION DIVISION

Approved By: C. Shepard

Title: Geologist

Approved Date: 2/18/2013 Expiration Date: 2/18/2015

Conditions of Approval Attached

COOKSEY 2 25 28 STATE 1H

NMOCD's forms C-102, C-144(CLEZ) pit permit, casing program, directional planning report, depth to ground water reports, and other information is enclosed. There are no known high levels of H2S in this area. However, monitoring of H2S and well readiness will be utilized in the drilling of this well. Surface hole will be drilled with fresh water mud, intermediate-brine and production hole with cut-brine.

Cooksey 2-25-28 State Com 1H

Type	Hole Size (")	Casing Size (in)	Casing Weight (#'s)	Setting Depth (ft)	Estimated TOC (ft)	Bottom of Cemented Interval (ft)	Sacks of Cement (sx)
Surface	17.5	13.375	48	500	0	500	600
Intermediate	12.25	9.625	40	2,550	0	2,550	1,000
Production	8.75	5.5	17	12,906	2,050	8,578	1,400
		** Lateral will be an OH Packer Completion (no cement) from 12,906' (TD) to 8,578' (End of Curve). There will be a stage tool at the End of Curve to cement back up to 500' inside Intermediate csg thru.					

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-015-41132	53610	SAN LORENZO; BONE SPRING, NORTH

4 Property Code	5 Property Name	6 Well Number
39730	COOKSEY 2 25 28 STATE	1H
7 OGRID No.	**8 Operator Name**	**9 Elevation**
4323	CHEVRON U.S.A. INC.	2946'

10 Surface Location

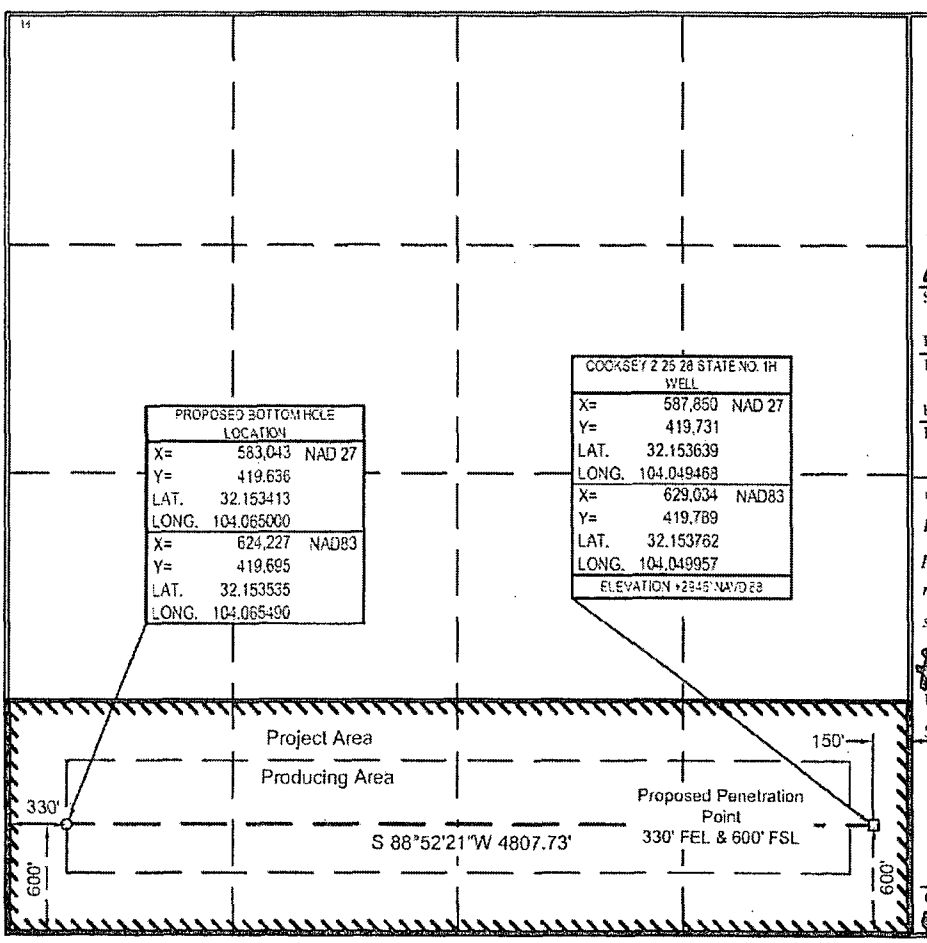
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	25 SOUTH	28 EAST, N.M.P.M.		600'	SOUTH	150'	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	25 SOUTH	28 EAST, N.M.P.M.		600'	SOUTH	330'	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 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.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Bryan Arrant — 02/14/2013
Signature — Date

Bryan Arrant (Agent for Chevron)
Printed Name

bryanarrant@chk.com
E-mail Address

18 SURVEYOR CERTIFICATION

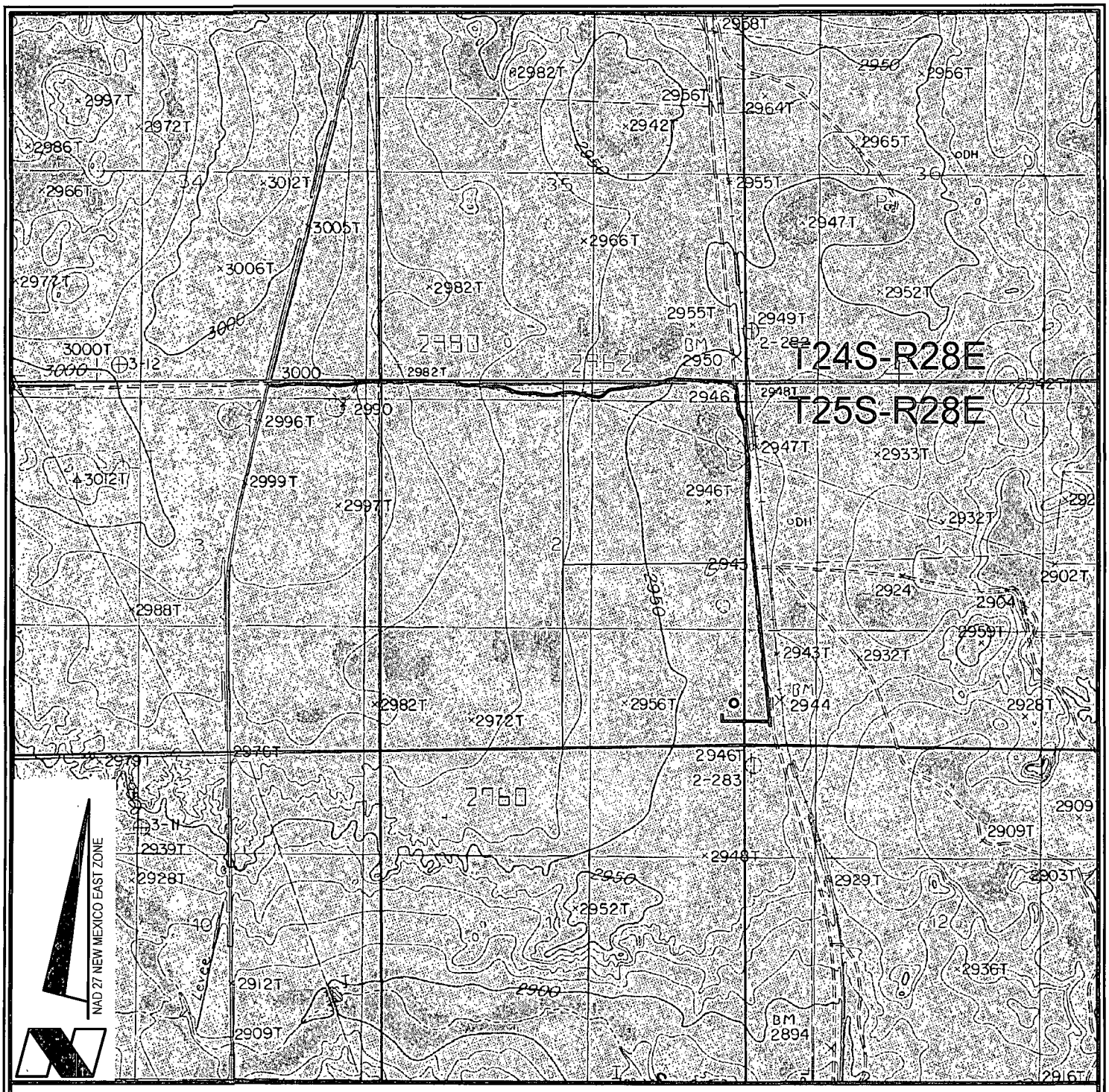
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEB 13 2013
Date of Survey

Signature and Seal of Professional Surveyor:

WM. J. DANIEL JR. NEW MEXICO 15078 REGISTERED PROFESSIONAL SURVEYOR

Certificate Number #15078



VICINITY MAP

2000' 0 1000' 2000'

Scale: 1" = 2000'

CHEVRON U.S.A. INC.

COOKSEY 2-25-28 STATE NO. 1H WELL

LOCATED 600' FSL AND 150' FEL

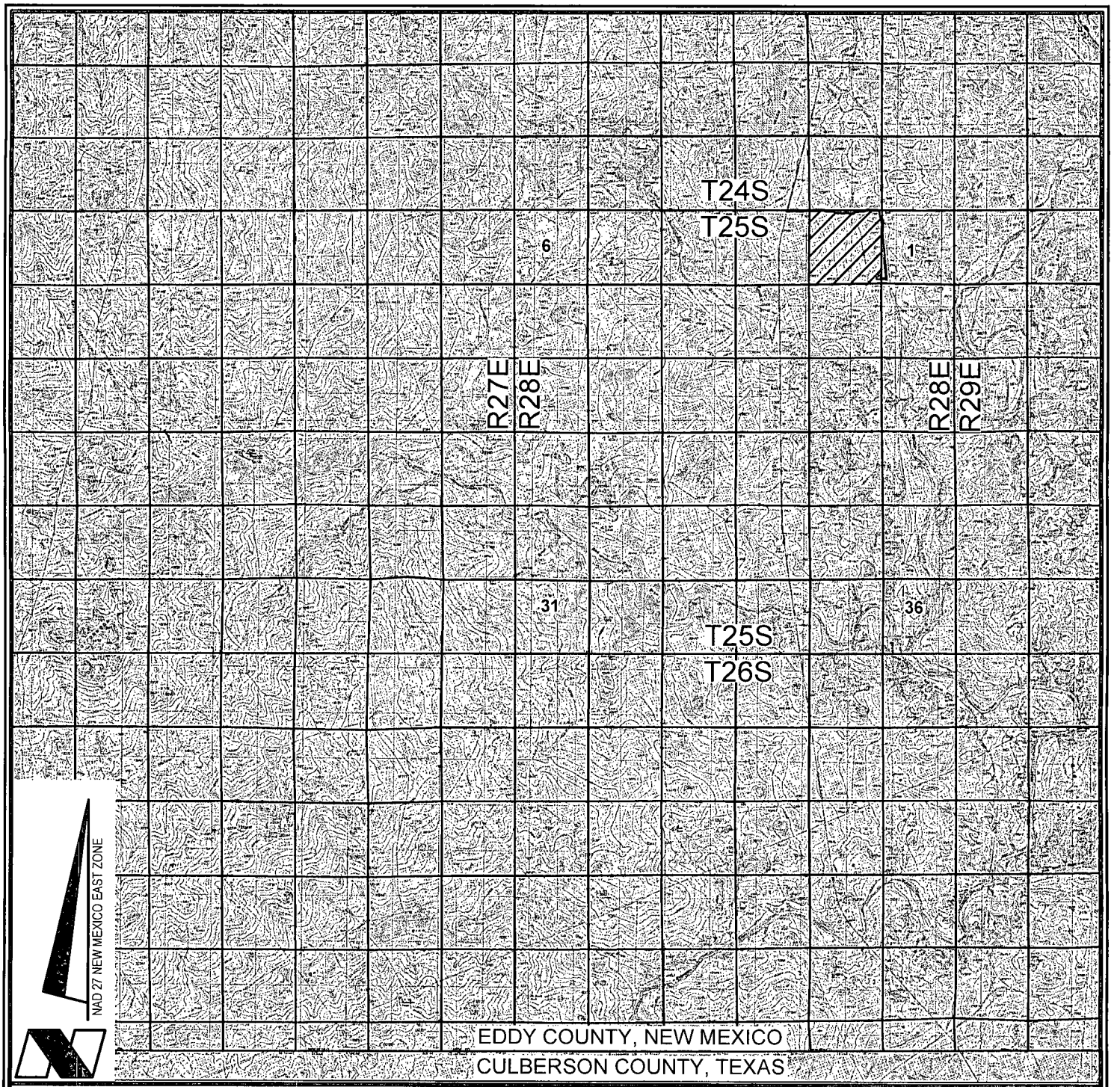
SECTION 2, T25S-R28E

EDDY COUNTY, NEW MEXICO

FENSTERMAKER

Lafayette New Orleans Houston
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BMO	REVISED:	DATE: 02/08/2013
PROJ. MGR.: DBM		SHEET 1 OF 3 SHEETS
FILENAME: T:\2013\2139134\DWG\Cooksey 2-25-28 STATE 1H APD.dwg		



VICINITY MAP

10,000' 0 5,000' 10,000'

Scale: 1" = 10,000'

CHEVRON U.S.A. INC.

COOKSEY 2-25-28 STATE NO. 1H WELL

LOCATED 600' FSL AND 150' FEL

SECTION 2, T25S-R28E

EDDY COUNTY, NEW MEXICO

FENSTERMAKER

Lafayette New Orleans Houston
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BMO	REVISED:	DATE: 02/08/2013
PROJ. MGR.: DBM		SHEET 2 OF 3 SHEETS
FILENAME: T:\2013\2139134\DWG\Cooksey 2-25-28 STATE 1H APD.dwg		

SW PAD CRN. & SE FACILITY PAD CRN.	NW FACILITY PAD CRN.	NE FACILITY PAD CRN.	SW FACILITY PAD CRN.	NW ARCH. AREA CRN.	NE ARCH. AREA CRN.	SE ARCH. AREA CRN.	SW ARCH. AREA CRN.	NW PAD CRN.	NE PAD CRN.	SE PAD CRN.	COOKSEY 2-25-28 STATE NO. 1H WELL
X= 587,674 NAD 27	X= 587,425 NAD 27	X= 587,675 NAD 27	X= 587,424 NAD 27	X= 587,551 NAD 27	X= 588,151 NAD 27	X= 588,143 NAD 27	X= 587,548 NAD 27	X= 587,676 NAD 27	X= 587,976 NAD 27	X= 587,974 NAD 27	X= 587,650 NAD 27
Y= 419,567	Y= 419,818	Y= 419,817	Y= 419,568	Y= 420,032	Y= 420,029	Y= 419,429	Y= 419,432	Y= 419,897	Y= 419,895	Y= 419,565	Y= 419,731
ELEVATION +2948' NAVD 88	ELEVATION +2951' NAVD 88	ELEVATION +2948' NAVD 88	ELEVATION +2949' NAVD 88	ELEVATION +2949' NAVD 88	ELEVATION +2945' NAVD 88	ELEVATION +2946' NAVD 88	ELEVATION +2948' NAVD 88	ELEVATION +2948' NAVD 88	ELEVATION +2946' NAVD 88	ELEVATION +2946' NAVD 88	LAT. 32.153839 LONG. 104.049468
											X= 629,034 NAD83 Y= 419,789 LAT. 32.153762 LONG. 104.049957 ELEVATION +2946' NAVD 88

Sec. 34
Scott & Valarie Branson

Northwest Section Corner Fnd. 2" Iron Pipe w/ Brass Disk

Sec. 35
Devon Energy
(±0.23 Acres, ±742', ±44.99 Rods-Existing Lease Road)

Northeast Section Corner Fnd. 1" Iron Pipe w/ Brass Disk

Sec. 36
State of New Mexico

T 24 S - R 28 E

T 25 S - R 28 E

±1625'

±2679'

±1525'

±742'

±1042'

US Hwy 285

Existing Lease Road 14' Wide

Bureau of Land Management
(±0.83 Acres, ±2567', ±155.54 Rods-Existing Lease Road)

Sec. 1
Bureau of Land Management
(±1.33 Acres, ±4146', ±251.29 Rods-Existing Lease Road)

Devon Energy
(±0.86 Acres, ±2679', ±162.38 Rods-Existing Lease Road)

Sec. 3
State of New Mexico
(±0.52 Acres, ±1625', ±98.49 Rods-Existing Lease Road)

Sec. 2

±4146'

State of New Mexico

SEE INSET

Southwest Section Corner Fnd. 2" Iron Pipe w/ Brass Disk

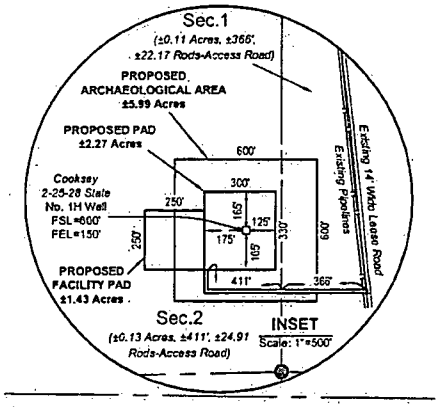
PROPOSED ACCESS ROAD TOTAL
14' X ±777'
±0.25 Acres
±47.08 Rods

Southeast Section Corner Fnd. 2" Iron Pipe w/ Brass Disk

Sec. 10

Sec. 11

Sec. 12



LEGEND
- Proposed Well
- Section Line
- Existing Road
- Existing Pipeline
- Found Occupation

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.
I, WM. J. Daniel III, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

WM. J. DANIEL III NEW MEXICO 15078 REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No. 15078

NAD 27 NEW MEXICO EAST ZONE

Scale: 1"=1000'
1000' 0 500' 1000'

NOTE:
PLEASE BE ADVISED, THAT WHILE REASONABLE EFFORTS ARE MADE TO LOCATE AND VERIFY PIPELINES AND ANOMALIES USING OUR STANDARD PIPELINE LOCATING EQUIPMENT, IT IS IMPOSSIBLE TO BE 100% EFFECTIVE. AS SUCH, WE ADVISE USING CAUTION WHEN PERFORMING WORK AS THERE IS A POSSIBILITY THAT PIPELINES AND OTHER HAZARDS, SUCH AS FIBER OPTIC CABLES, PVC PIPELINES, ETC. MAY EXIST UNDETECTED ON SITE.

MANY STATES MAINTAIN INFORMATION CENTERS THAT ESTABLISH LINKS BETWEEN THOSE WHO DIG (EXCAVATORS) AND THOSE WHO OWN AND OPERATE UNDERGROUND FACILITIES (OPERATORS). IT IS ADVISABLE AND IN MOST STATES, LAW, FOR THE CONTRACTOR TO CONTACT THE CENTER FOR ASSISTANCE IN LOCATING AND MARKING UNDERGROUND UTILITIES. NEW MEXICO ONE CALL, http://www.nmonecall.org/.

DISCLAIMER: AT THIS TIME, FENSTERMAKER & ASSOCIATES, INC. HAS NOT PERFORMED NOR WAS ASKED TO PERFORM ANY TYPE OF ENGINEERING, HYDROLOGICAL MODELING, FLOOD PLAIN, OR "NO RISE" CERTIFICATION ANALYSES, INCLUDING BUT NOT LIMITED TO DETERMINING WHETHER THE PROJECT WILL IMPACT FLOOD HAZARDS IN CONNECTION WITH FEDERAL, STATE, AND/OR LOCAL LAWS, ORDINANCES AND REGULATIONS. ACCORDINGLY, FENSTERMAKER MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND AS TO THE FOREGOING ISSUES, AND PERSONS OR ENTITIES USING THIS INFORMATION SHALL DO SO AT THEIR OWN RISK.

SURFACE USE PLAT

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
COOKSEY 2-25-28 STATE NO. 1H WELL
SECTIONS 1 & 2, T25S-R28E
EDDY COUNTY, NEW MEXICO

FENSTERMAKER
135 Regency Sq, Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BMO	REVISIONS		
PROJ. MGR.: DBM	No. 1	DATE: 2/11/2013	REVISED BY: GDG
DATE: 02/08/2013	No.	DATE:	REVISED BY:
FILENAME: T:\2013\213913\DWG\Cooksey 2-25-28 STATE 1H SUP.dwg			

Permian District

NM - Bone Spring Sand Project
Cooksey 2-25-28 State Com 1H
Well #1

Wellbore #1

Plan: Plat 13Feb13

Standard Planning Report

14 February, 2013

Chesapeake Operating
Planning Report

Database:	Drilling Database	**Local Co-ordinate Reference:**	Site Cooksey 2-25-28 State Com 1H
Company:	Permian District	**TVD Reference:**	RKB @ 2963.0usft
Project:	NM - Bone Spring Sand Project	**MD Reference:**	RKB @ 2963.0usft
Site:	Cooksey 2-25-28 State Com 1H	**North Reference:**	Grid
Well:	Well #1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 13Feb13		

Project NM - Bone Spring Sand Project

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Cooksey 2-25-28 State Com 1H

Site Position:		**Northing:**	419,731.00 ft	**Latitude:**	32° 9' 13.09193694 N
From:	Map	**Easting:**	587,850.00 ft	**Longitude:**	104° 2' 58.09682545 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.15 °

Well Well #1

Well Position	**+N/-S**	0.0 usft	**Northing:**	419,731.00 ft	**Latitude:**	32° 9' 13.09193694 N
	+E/-W	0.0 usft	**Easting:**	587,850.00 ft	**Longitude:**	104° 2' 58.09682545 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	2,946.0 usft	**Ground Level:**	2,946.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/14/2013	7.60	60.00	48,358

Design Plat 13Feb13

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	268.87

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,825.0	0.00	0.00	7,825.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,577.5	90.30	268.87	8,302.5	-9.5	-479.9	12.00	12.00	0.00	268.87	
12,905.5	90.30	268.87	8,279.8	-95.0	-4,807.0	0.00	0.00	0.00	0.00	Cooksey 2-25-28 S

Database:	Drilling Database	**Local Co-ordinate Reference:**	Site Cooksey 2-25-28 State Com 1H
Company:	Permian District	**TVD Reference:**	RKB @ 2963.0usft
Project:	NM - Bone Spring Sand Project	**MD Reference:**	RKB @ 2963.0usft
Site:	Cooksey 2-25-28 State Com 1H	**North Reference:**	Grid
Well:	Well #1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 13Feb13		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Database:	Drilling Database	**Local Co-ordinate Reference:**	Site Cooksey 2-25-28 State Com 1H
Company:	Permian District	**TVD Reference:**	RKB @ 2963.0usft
Project:	NM - Bone Spring Sand Project	**MD Reference:**	RKB @ 2963.0usft
Site:	Cooksey 2-25-28 State Com 1H	**North Reference:**	Grid
Well:	Well #1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 13Feb13		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,825.0	0.00	0.00	7,825.0	0.0	0.0	0.0	0.00	0.00	0.00
7,850.0	3.00	268.87	7,850.0	0.0	-0.7	0.7	12.00	12.00	0.00
7,875.0	6.00	268.87	7,874.9	-0.1	-2.6	2.6	12.00	12.00	0.00
7,900.0	9.00	268.87	7,899.7	-0.1	-5.9	5.9	12.00	12.00	0.00
7,925.0	12.00	268.87	7,924.3	-0.2	-10.4	10.4	12.00	12.00	0.00
7,950.0	15.00	268.87	7,948.6	-0.3	-16.3	16.3	12.00	12.00	0.00
7,975.0	18.00	268.87	7,972.5	-0.5	-23.4	23.4	12.00	12.00	0.00
8,000.0	21.00	268.87	7,996.1	-0.6	-31.7	31.7	12.00	12.00	0.00
8,025.0	24.00	268.87	8,019.2	-0.8	-41.3	41.3	12.00	12.00	0.00
8,050.0	27.00	268.87	8,041.8	-1.0	-52.0	52.0	12.00	12.00	0.00
8,075.0	30.00	268.87	8,063.7	-1.3	-64.0	64.0	12.00	12.00	0.00
8,100.0	33.00	268.87	8,085.0	-1.5	-77.0	77.0	12.00	12.00	0.00
8,125.0	36.00	268.87	8,105.6	-1.8	-91.2	91.2	12.00	12.00	0.00
8,150.0	39.00	268.87	8,125.5	-2.1	-106.4	106.4	12.00	12.00	0.00
8,175.0	42.00	268.87	8,144.5	-2.4	-122.6	122.6	12.00	12.00	0.00
8,200.0	45.00	268.87	8,162.6	-2.8	-139.8	139.8	12.00	12.00	0.00
8,225.0	48.00	268.87	8,179.8	-3.1	-157.9	158.0	12.00	12.00	0.00
8,250.0	51.00	268.87	8,196.1	-3.5	-176.9	177.0	12.00	12.00	0.00
8,275.0	54.00	268.87	8,211.3	-3.9	-196.8	196.8	12.00	12.00	0.00
8,300.0	57.00	268.87	8,225.4	-4.3	-217.4	217.4	12.00	12.00	0.00
8,325.0	60.00	268.87	8,238.5	-4.7	-238.7	238.7	12.00	12.00	0.00
8,350.0	63.00	268.87	8,250.4	-5.2	-260.6	260.7	12.00	12.00	0.00
8,375.0	66.00	268.87	8,261.2	-5.6	-283.2	283.3	12.00	12.00	0.00
8,400.0	69.00	268.87	8,270.8	-6.1	-306.3	306.4	12.00	12.00	0.00
8,425.0	72.00	268.87	8,279.1	-6.5	-329.9	329.9	12.00	12.00	0.00
8,450.0	75.00	268.87	8,286.2	-7.0	-353.8	353.9	12.00	12.00	0.00
8,475.0	78.00	268.87	8,292.0	-7.5	-378.1	378.2	12.00	12.00	0.00
8,500.0	81.00	268.87	8,296.6	-8.0	-402.7	402.8	12.00	12.00	0.00
8,525.0	84.00	268.87	8,299.9	-8.4	-427.5	427.6	12.00	12.00	0.00

Database:	Drilling Database	**Local Co-ordinate Reference:**	Site Cooksey 2-25-28 State Com 1H
Company:	Permian District	**TVD Reference:**	RKB @ 2963.0usft
Project:	NM - Bone Spring Sand Project	**MD Reference:**	RKB @ 2963.0usft
Site:	Cooksey 2-25-28 State Com 1H	**North Reference:**	Grid
Well:	Well #1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 13Feb13		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,550.0	87.00	268.87	8,301.8	-8.9	-452.4	452.5	12.00	12.00	0.00
8,575.0	90.00	268.87	8,302.5	-9.4	-477.4	477.5	12.00	12.00	0.00
8,577.5	90.30	268.87	8,302.5	-9.5	-479.9	480.0	12.00	12.00	0.00
8,600.0	90.30	268.87	8,302.3	-9.9	-502.4	502.5	0.00	0.00	0.00
8,700.0	90.30	268.87	8,301.8	-11.9	-602.3	602.5	0.00	0.00	0.00
8,800.0	90.30	268.87	8,301.3	-13.9	-702.3	702.5	0.00	0.00	0.00
8,900.0	90.30	268.87	8,300.8	-15.9	-802.3	802.5	0.00	0.00	0.00
9,000.0	90.30	268.87	8,300.2	-17.8	-902.3	902.5	0.00	0.00	0.00
9,100.0	90.30	268.87	8,299.7	-19.8	-1,002.3	1,002.5	0.00	0.00	0.00
9,200.0	90.30	268.87	8,299.2	-21.8	-1,102.2	1,102.5	0.00	0.00	0.00
9,300.0	90.30	268.87	8,298.7	-23.8	-1,202.2	1,202.5	0.00	0.00	0.00
9,400.0	90.30	268.87	8,298.2	-25.7	-1,302.2	1,302.5	0.00	0.00	0.00
9,500.0	90.30	268.87	8,297.6	-27.7	-1,402.2	1,402.4	0.00	0.00	0.00
9,600.0	90.30	268.87	8,297.1	-29.7	-1,502.2	1,502.4	0.00	0.00	0.00
9,700.0	90.30	268.87	8,296.6	-31.7	-1,602.1	1,602.4	0.00	0.00	0.00
9,800.0	90.30	268.87	8,296.1	-33.6	-1,702.1	1,702.4	0.00	0.00	0.00
9,900.0	90.30	268.87	8,295.5	-35.6	-1,802.1	1,802.4	0.00	0.00	0.00
10,000.0	90.30	268.87	8,295.0	-37.6	-1,902.1	1,902.4	0.00	0.00	0.00
10,100.0	90.30	268.87	8,294.5	-39.6	-2,002.0	2,002.4	0.00	0.00	0.00
10,200.0	90.30	268.87	8,294.0	-41.5	-2,102.0	2,102.4	0.00	0.00	0.00
10,300.0	90.30	268.87	8,293.4	-43.5	-2,202.0	2,202.4	0.00	0.00	0.00
10,400.0	90.30	268.87	8,292.9	-45.5	-2,302.0	2,302.4	0.00	0.00	0.00
10,500.0	90.30	268.87	8,292.4	-47.5	-2,402.0	2,402.4	0.00	0.00	0.00
10,600.0	90.30	268.87	8,291.9	-49.4	-2,501.9	2,502.4	0.00	0.00	0.00
10,700.0	90.30	268.87	8,291.3	-51.4	-2,601.9	2,602.4	0.00	0.00	0.00
10,800.0	90.30	268.87	8,290.8	-53.4	-2,701.9	2,702.4	0.00	0.00	0.00
10,900.0	90.30	268.87	8,290.3	-55.4	-2,801.9	2,802.4	0.00	0.00	0.00
11,000.0	90.30	268.87	8,289.8	-57.3	-2,901.9	2,902.4	0.00	0.00	0.00
11,100.0	90.30	268.87	8,289.3	-59.3	-3,001.8	3,002.4	0.00	0.00	0.00
11,200.0	90.30	268.87	8,288.7	-61.3	-3,101.8	3,102.4	0.00	0.00	0.00
11,300.0	90.30	268.87	8,288.2	-63.3	-3,201.8	3,202.4	0.00	0.00	0.00
11,400.0	90.30	268.87	8,287.7	-65.3	-3,301.8	3,302.4	0.00	0.00	0.00
11,500.0	90.30	268.87	8,287.2	-67.2	-3,401.8	3,402.4	0.00	0.00	0.00
11,600.0	90.30	268.87	8,286.6	-69.2	-3,501.7	3,502.4	0.00	0.00	0.00
11,700.0	90.30	268.87	8,286.1	-71.2	-3,601.7	3,602.4	0.00	0.00	0.00
11,800.0	90.30	268.87	8,285.6	-73.2	-3,701.7	3,702.4	0.00	0.00	0.00
11,900.0	90.30	268.87	8,285.1	-75.1	-3,801.7	3,802.4	0.00	0.00	0.00
12,000.0	90.30	268.87	8,284.5	-77.1	-3,901.7	3,902.4	0.00	0.00	0.00
12,100.0	90.30	268.87	8,284.0	-79.1	-4,001.6	4,002.4	0.00	0.00	0.00
12,200.0	90.30	268.87	8,283.5	-81.1	-4,101.6	4,102.4	0.00	0.00	0.00
12,300.0	90.30	268.87	8,283.0	-83.0	-4,201.6	4,202.4	0.00	0.00	0.00
12,400.0	90.30	268.87	8,282.4	-85.0	-4,301.6	4,302.4	0.00	0.00	0.00
12,500.0	90.30	268.87	8,281.9	-87.0	-4,401.5	4,402.4	0.00	0.00	0.00
12,600.0	90.30	268.87	8,281.4	-89.0	-4,501.5	4,502.4	0.00	0.00	0.00
12,700.0	90.30	268.87	8,280.9	-90.9	-4,601.5	4,602.4	0.00	0.00	0.00
12,800.0	90.30	268.87	8,280.4	-92.9	-4,701.5	4,702.4	0.00	0.00	0.00
12,905.5	90.30	268.87	8,279.8	-95.0	-4,807.0	4,807.9	0.00	0.00	0.00

Database:	Drilling Database	**Local Co-ordinate Reference:**	Site Cooksey 2-25-28 State Com 1H
Company:	Permian District	**TVD Reference:**	RKB @ 2963.0usft
Project:	NM - Bone Spring Sand Project	**MD Reference:**	RKB @ 2963.0usft
Site:	Cooksey 2-25-28 State Com 1H	**North Reference:**	Grid
Well:	Well #1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 13Feb13		

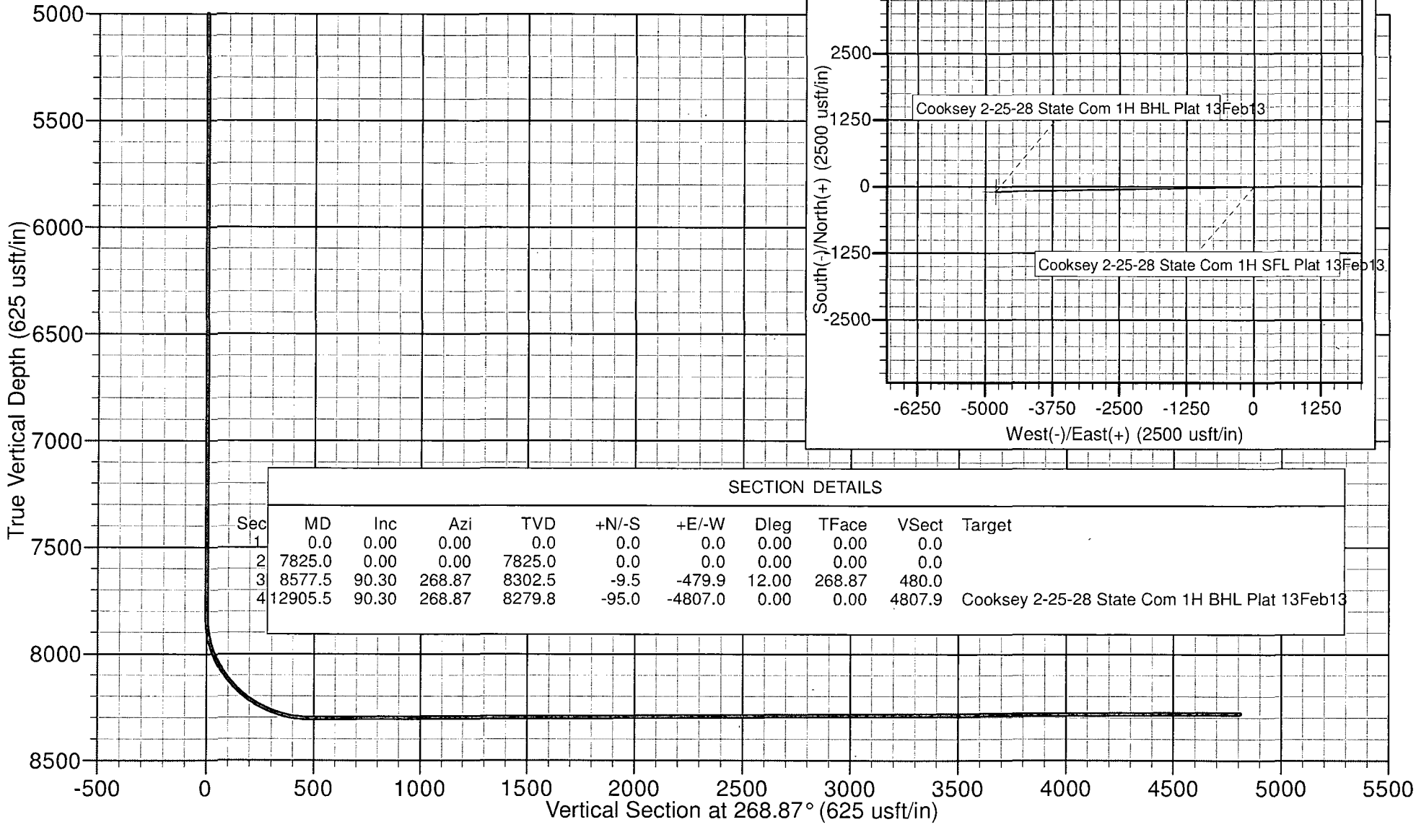
Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Cooksey 2-25-28 Stat - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	419,731.00	587,850.00	?° 9' 13.09193694 N	° 2' 58.09682545 W
Cooksey 2-25-28 Stat - plan hits target center - Point	0.00	0.00	8,279.8	-95.0	-4,807.0	419,636.00	583,043.00	?° 9' 12.27378166 N	° 3' 54.01644856 W

Project: NM - Bone Spring Sand Project
Site: Cooksey 2-25-28 State Com 1H
Well: Well #1
Wellbore: Wellbore #1
Design: Plat 13Feb13

PROJECT DETAILS: NM - Bone Spring Sand Project

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	7825.0	0.00	0.00	7825.0	0.0	0.0	0.00	0.00	0.0	
3	8577.5	90.30	268.87	8302.5	-9.5	-479.9	12.00	268.87	480.0	
4	12905.5	90.30	268.87	8279.8	-95.0	-4807.0	0.00	0.00	4807.9	Cooksey 2-25-28 State Com 1H BHL Plat 13Feb13

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

Basin/County Search:

Basin: Carlsbad **County:** Eddy

PLSS Search:

Section(s): 1, 2, 3, 10, 11, 12 **Township:** 25S **Range:** 28E

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WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

Basin/County Search:

Basin: Carlsbad **County:** Eddy

PLSS Search:

Section(s): 34, 35, 36 **Township:** 24S **Range:** 28E

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WATER COLUMN/ AVERAGE DEPTH TO WATER