

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS** *OCB Artesia*
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM92160
2. Name of Operator CIMAREX ENERGY CO OF COLORADO Contact: NATALIE E KRUEGER Email: nkrueger@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 E MARIENFELD STREET SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1936 Fx: 432-620-1940	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T25S R26E SESE 2480FSL 850FEL BHL 1980 FSL 660 FWL		8. Well Name and No. CHOSA DRAW 27 FEDERAL 3
		9. API Well No. 30-015-37180-00-X1
		10. Field and Pool, or Exploratory COTTONWOOD DRAW
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	BHL Change

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

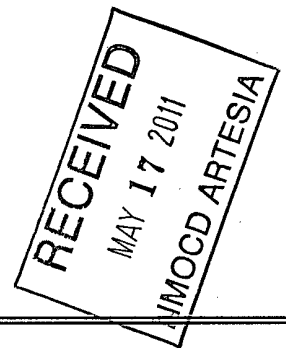
Cimarex proposes to drill the lateral for this well differently than permitted.

Plan to drill 8.75 inch hole to 8800 and log. Set 7 inch 26# P110 LTC casing from 0-8800 with DVT @ 1850. Cement first stage with Lead: 840 sks 12.9#, Yield 1.86, EconoCem HLH + 5% NaCl + 5 lbm/sk Gilsonite and Tail: 630 sks 14.#, yield 1.22, VersaCemH + 0.4% LAP-1 + 0.3% CFR-3 + 0.25 lbm/sk D-AIR + 1 lbm/Sk NaCl + 0.1% HR-601. TOC 1300. Cement second stage with 150 sx 12.9#, Yield 1.86, EconoCem HLC + 5% NaCl + 5 lbm/sk Gilsonite. TOC surface. Excess for both stages is 25%.

DVT setting depth will be adjusted depending on hole conditions. DVT to be set at a minimum of 50' below previous shoe and a maximum of 200' above current shoe. Cement volumes will be adjusted accordingly.

See Previous COAs

Accepted for record - NMOCD
DA 5-20-11



14. I hereby certify that the foregoing is true and correct. Electronic Submission #106922 verified by the BLM Well Information System For CIMAREX ENERGY CO OF COLORADO, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 04/25/2011 (11KMS1448SE)	
Name (Printed/Typed) NATALIE E KRUEGER	Title REGULATORY
Signature (Electronic Submission)	Date 04/22/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 05/10/2010
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Additional data for EC transaction #106922 that would not fit on the form

32. Additional remarks, continued

Drill through 7 inch with 6.125 inch bit to 10250 and log. Set cement kickoff plug with 420 sx Class H, wt 17, yld 0.94, 15% excess. Dress off plug and kick off 6.125 inch directional @ 8809. Drill directionally 120 feet South and then kick off for lateral @ 2360 FSL & 850 FEL. Land curve @ 1980 FSL & 1423 FEL and drill to TD @ 1980 FSL & 660 FWL, MD 13253, TVD 9555.

Run 4.5 inch 11.6# P110 casing from liner hanger @ 8669 to TD. Use LTC from liner hanger to kick off point for lateral (9156 MD) and BTC from kick off point of lateral to end of curve (10056 MD), then LTC from end of curve to TD. Cement with 400 sx 5050 POZ H + 2% D20 + 0.2% D112 + 0.2% D65, yld 1.24, wt 14.58, 15% excess.



Weatherford[®]

Drilling Services

Proposal



CHOSA DRAW 27 FED #3

EDDY CO, NM

WELL FILE: **PLAN 3**

APRIL 18, 2011

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

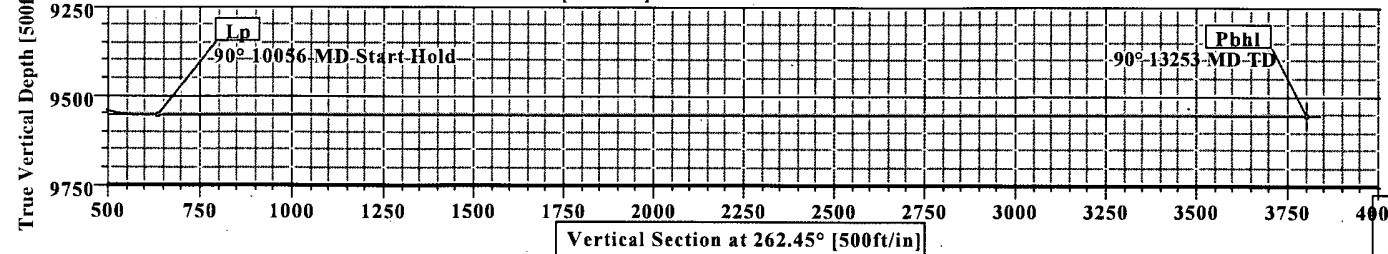
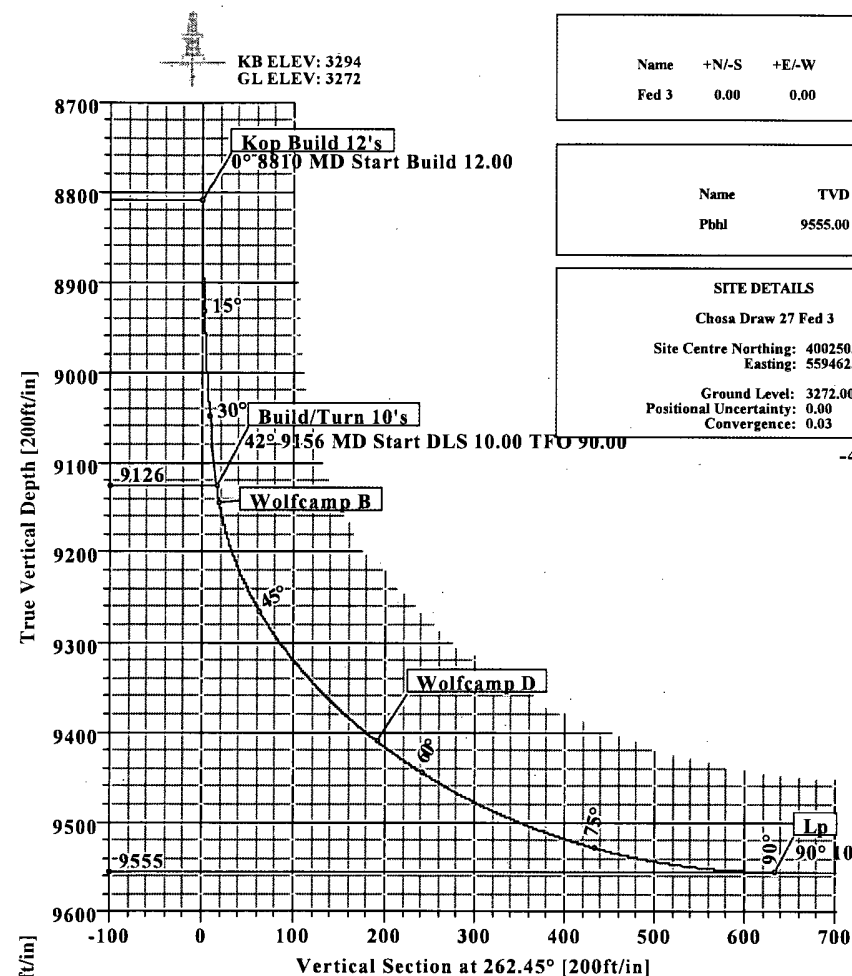
+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Chosa Draw 27 Fed 3 Eddy Co., NM



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	8809.51	0.00	180.00	8809.51	0.00	0.00	0.00	180.00	0.00	
3	9155.76	41.55	180.00	9126.20	-120.14	0.00	12.00	180.00	15.80	
4	10055.78	90.00	270.00	9555.00	-500.15	-572.98	10.00	90.00	633.76	
5	13252.80	90.00	270.00	9555.00	-500.00	-3770.00	0.00	0.00	3803.01	Pbh

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Fed 3	0.00	0.00	400250.60	559462.70	32°06'01.269N	104°16'29.289W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbh	9555.00	-500.00	-3770.00	399750.60	555692.70	Point

SITE DETAILS

Chosa Draw 27 Fed 3
Site Centre Northing: 400250.60
Easting: 559462.70
Ground Level: 3272.00
Positional Uncertainty: 0.00
Convergence: 0.03

LEGEND

1
Plan #3



Azimuths to Grid North
True North: -0.03°
Magnetic North: 7.88°

Magnetic Field
Strength: 48500nT
Dip Angle: 59.95°
Date: 4/30/2011
Model: IGRF2010

Total Correction to Grid North: 7.88°

FIELD DETAILS

Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North



Plan: Plan #3 (Fed 3/1)

Created By: Russell W. Joyner

Date: 4/18/2011



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Cimarex Energy	Date: 4/18/2011	Time: 11:04:37	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Fed 3, Grid North		
Site: Chosa Draw 27 Fed 3	Vertical (TVD) Reference: SITE 3294.0		
Well: Fed 3	Section (VS) Reference: Well (0.00N,0.00E,262.45Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #3	Date Composed: 4/15/2011
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Chosa Draw 27 Fed 3

Site Position:	Northing: 400250.60 ft	Latitude: 32 6 1.269 N
From: Map	Easting: 559462.70 ft	Longitude: 104 16 29.289 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3272.00 ft		Grid Convergence: 0.03 deg

Well: Fed 3	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 6 1.269 N
+E/-W 0.00 ft	Longitude: 104 16 29.289 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 4/30/2011	Above System Datum: Mean Sea Level
Field Strength: 48500 nT	Declination: 7.91 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 59.95 deg
ft	+N/-S ft
+E/-W ft	Direction deg
0.00	0.00
0.00	0.00
0.00	262.45

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8809.51	0.00	180.00	8809.51	0.00	0.00	0.00	0.00	0.00	180.00	
9155.76	41.55	180.00	9126.20	-120.14	0.00	12.00	12.00	0.00	180.00	
10055.78	90.00	270.00	9555.00	-500.15	-572.98	10.00	5.38	10.00	90.00	
13252.80	90.00	270.00	9555.00	-500.00	-3770.00	0.00	0.00	0.00	0.00	Pbhl

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8800.00	0.00	180.00	8800.00	0.00	0.00	0.00	0.00	400250.60	559462.70	
8809.51	0.00	180.00	8809.51	0.00	0.00	0.00	0.00	400250.60	559462.70	Kop Build 12's
8900.00	10.86	180.00	8899.46	-8.55	0.00	1.12	12.00	400242.05	559462.70	
9000.00	22.86	180.00	8994.99	-37.50	0.00	4.93	12.00	400213.10	559462.70	
9100.00	34.86	180.00	9082.41	-85.67	0.00	11.26	12.00	400164.93	559462.70	
9155.76	41.55	180.00	9126.20	-120.14	0.00	15.80	12.00	400130.46	559462.70	Build/Turn 10's
9179.55	41.61	183.58	9144.00	-135.92	-0.49	18.36	10.00	400114.68	559462.21	Wolfcamp B
9200.00	41.74	186.65	9159.28	-149.46	-1.71	21.34	10.00	400101.14	559460.99	
9300.00	43.55	201.20	9233.01	-214.80	-18.06	46.14	10.00	400035.80	559444.64	
9400.00	47.05	214.40	9303.50	-277.28	-51.27	87.28	10.00	399973.32	559411.43	
9500.00	51.88	225.94	9368.60	-334.97	-100.34	143.51	10.00	399915.63	559362.36	
9570.18	55.87	233.09	9410.00	-371.66	-143.45	191.07	10.00	399878.94	559319.25	Wolfcamp D
9600.00	57.69	235.91	9426.34	-386.14	-163.76	213.11	10.00	399864.46	559298.94	
9700.00	64.19	244.62	9474.96	-429.23	-239.62	293.97	10.00	399821.37	559223.08	
9800.00	71.15	252.39	9512.98	-462.92	-325.61	383.64	10.00	399787.68	559137.09	
9900.00	78.41	259.53	9539.25	-486.20	-419.11	479.39	10.00	399764.40	559043.59	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Cimarex Energy Date: 4/18/2011 Time: 11:04:37 Page: 2
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Fed 3, Grid North
Site: Chosa Draw 27 Fed 3 Vertical (TVD) Reference: SITE 3294.0
Well: Fed 3 Section (VS) Reference: Well (0.00N,0.00E,262.45Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
10000.00	85.83	266.30	9552.97	-498.36	-517.29	578.32	10.00	399752.24	558945.41	Lp
10055.78	90.00	270.00	9555.00	-500.15	-572.98	633.76	10.00	399750.45	558889.72	
10100.00	90.00	270.00	9555.00	-500.15	-617.20	677.60	0.00	399750.45	558845.50	
10200.00	90.00	270.00	9555.00	-500.15	-717.20	776.73	0.00	399750.45	558745.50	
10300.00	90.00	270.00	9555.00	-500.14	-817.20	875.86	0.00	399750.46	558645.50	
10400.00	90.00	270.00	9555.00	-500.14	-917.20	974.99	0.00	399750.46	558545.50	
10500.00	90.00	270.00	9555.00	-500.13	-1017.20	1074.12	0.00	399750.47	558445.50	
10600.00	90.00	270.00	9555.00	-500.13	-1117.20	1173.25	0.00	399750.47	558345.50	
10700.00	90.00	270.00	9555.00	-500.12	-1217.20	1272.39	0.00	399750.48	558245.50	
10800.00	90.00	270.00	9555.00	-500.12	-1317.20	1371.52	0.00	399750.48	558145.50	
10900.00	90.00	270.00	9555.00	-500.11	-1417.20	1470.65	0.00	399750.49	558045.50	
11000.00	90.00	270.00	9555.00	-500.11	-1517.20	1569.78	0.00	399750.49	557945.50	
11100.00	90.00	270.00	9555.00	-500.10	-1617.20	1668.91	0.00	399750.50	557845.50	
11200.00	90.00	270.00	9555.00	-500.10	-1717.20	1768.04	0.00	399750.50	557745.50	
11300.00	90.00	270.00	9555.00	-500.09	-1817.20	1867.17	0.00	399750.51	557645.50	
11400.00	90.00	270.00	9555.00	-500.09	-1917.20	1966.30	0.00	399750.51	557545.50	
11500.00	90.00	270.00	9555.00	-500.08	-2017.20	2065.44	0.00	399750.52	557445.50	
11600.00	90.00	270.00	9555.00	-500.08	-2117.20	2164.57	0.00	399750.52	557345.50	
11700.00	90.00	270.00	9555.00	-500.07	-2217.20	2263.70	0.00	399750.53	557245.50	
11800.00	90.00	270.00	9555.00	-500.07	-2317.20	2362.83	0.00	399750.53	557145.50	
11900.00	90.00	270.00	9555.00	-500.06	-2417.20	2461.96	0.00	399750.54	557045.50	
12000.00	90.00	270.00	9555.00	-500.06	-2517.20	2561.09	0.00	399750.54	556945.50	
12100.00	90.00	270.00	9555.00	-500.06	-2617.20	2660.22	0.00	399750.54	556845.50	
12200.00	90.00	270.00	9555.00	-500.05	-2717.20	2759.36	0.00	399750.55	556745.50	
12300.00	90.00	270.00	9555.00	-500.05	-2817.20	2858.49	0.00	399750.55	556645.50	
12400.00	90.00	270.00	9555.00	-500.04	-2917.20	2957.62	0.00	399750.56	556545.50	
12500.00	90.00	270.00	9555.00	-500.04	-3017.20	3056.75	0.00	399750.56	556445.50	
12600.00	90.00	270.00	9555.00	-500.03	-3117.20	3155.88	0.00	399750.57	556345.50	
12700.00	90.00	270.00	9555.00	-500.03	-3217.20	3255.01	0.00	399750.57	556245.50	
12800.00	90.00	270.00	9555.00	-500.02	-3317.20	3354.14	0.00	399750.58	556145.50	
12900.00	90.00	270.00	9555.00	-500.02	-3417.20	3453.27	0.00	399750.58	556045.50	
13000.00	90.00	270.00	9555.00	-500.01	-3517.20	3552.41	0.00	399750.59	555945.50	
13100.00	90.00	270.00	9555.00	-500.01	-3617.20	3651.54	0.00	399750.59	555845.50	
13200.00	90.00	270.00	9555.00	-500.00	-3717.20	3750.67	0.00	399750.60	555745.50	
13252.80	90.00	270.00	9555.00	-500.00	-3770.00	3803.01	0.00	399750.60	555692.70	Pbhl

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
Pbhl			9555.00	-500.00	-3770.00	399750.60	555692.70	32	5	56.339 N	104	17	13.121 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



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WFT Plan Report - X & Y's



Weatherford

Company: Cimarex Energy	Date: 4/18/2011	Time: 11:04:37	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Fed 3, Grid North	
Site: Chosa Draw 27 Fed 3	Vertical (TVD) Reference:	SITE 3294.0	
Well: Fed 3	Section (VS) Reference:	Well (0.00N,0.00E,262.45Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Annotation

MD ft	TVD ft	
8809.51	8809.51	Kop Build 12's
9155.76	9126.20	Build/Turn 10's
10055.78	9555.00	Lp
13252.80	9555.00	Pbhl

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
9179.55	9144.00	Wolfcamp B		0.00	0.00
9570.18	9410.00	Wolfcamp D		0.00	0.00

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: April 14, 2011
Job Number: _____
Customer: Cimarex Energy
Well Name: Chosa Draw 27 Fed 3
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
Block: _____
Engineer: R Joyner

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: GRS 1980	Ellipsoid: Clarke 1866
North/South 400250.600 USFT	Latitude 32.1002347 DEG
East/West 559462.700 USFT	Longitude -104.2743013 DEG
Grid Convergence: .03°	
Total Correction: +7.89°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude = 32.10023° N	32° 6 min .845 sec	
Longitude = 104.27430° W	104° 16 min 27.485 sec	

Magnetic Declination =	7.92°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6850
Local Field Strength =	48500 nT	Magnetic Vector X =	24054 nT
Magnetic Dip =	59.95°	Magnetic Vector Y =	3345 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	41982 nT
Spud Date =	Apr 14, 2011	Magnetic Vector H =	24285 nT

Signed: _____

Date: _____