30-025-42988

PHOENIX
TECHNOLOGY SERVICES

September 14, 2017

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

HOBBS OCD
SEP 25 2017
RECEIVED

Dear District 1 - Hobbs

Re: Caza Petroleum
Eagleclaw 8-5 Federal #1H
Lea Co., New Mexico
API #30-025-42988
Job No. 61738

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 606018). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Noe Garza	1H	0	159	9/6/17	9/6/17	Gyro

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

12329 Cutten Rd. Houston, TX 77066 • Phone (713) 337-0600 • Fax (713) 337-0599
www.phxtech.com

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964

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Company: Caza

Job #: 61738

Well Name: Eagleclaw 8-5 Federal # 1H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-42988

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-09-06	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-09-06	159	0.25	130.44

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.46

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 09-06-17

Print Name: Noe Garza

Signature:

PHOENIX
TECHNOLOGY SERVICES

Company:	Caza	Job Number:	61738	Date:	09-06-17
Well:	Eagleclaw 8-5 Federal # 1H	Grid Corr.:	-0.46	Calculation Method:	Minimum Curvature
Location:	Lea Co., New Mexico	Lat:	32.60	Proposed Azimuth:	
Rig:	FBD 27	Long:	-103.49	RKB - MSL in feet:	25
				Tie Into:	Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Enter Tie-In Survey on Line 10						**FIELD COPY, NON-DEFINITIVE**							
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.12	125.92	100	100.00	-0.06	0.06 S	0.08 E	0.10	125.92	0.12	0.12	125.92
	159.00	0.25	130.44	59	159.00	-0.18	0.18 S	0.23 E	0.29	127.89	0.22	0.22	7.66