



May 26, 2016

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

AUG 29 2016

RECEIVED

Concho Resources, Inc.  
One Concho Center  
600 W. Illinois Avenue  
Midland, Texas 79701

30-015-42759

Attn: Kanicia Castillo

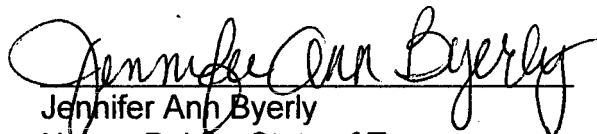
RE: **Burch Keely Unit No. 937H**

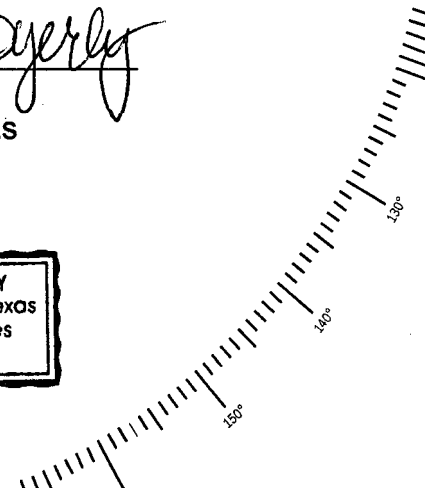
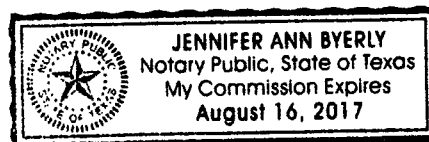
Please find enclosed a copy of the survey from 0' to 1015' ran on the above referenced well.

Sincerely,  
  
Keith Havelka  
Operations

STATE OF TEXAS     §  
                                  §  
COUNTY OF NUECES §

This instrument was acknowledged before me on the 26th day of May,  
A.D., 2016, by Keith Havelka.

  
Jennifer Ann Byerly  
Notary Public, State of Texas





Company: Concho  
Lease/Well: Burch Keely Unit No./937H

Rig Name: Silver Oak 3

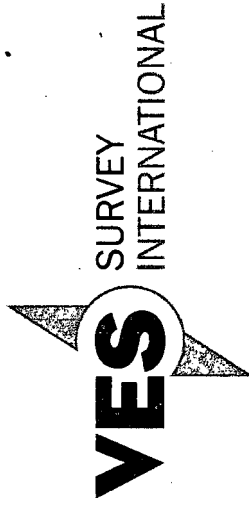
State/County: New Mexico/Eddy

VS-Azi: 0.00 Degrees

Latitude: 32.82809, Longitude: -104.03569

Grid North = True North -0.16 degs (NAD 27)

Grid Correction Applied = -0.16 degs



Depth Reference : RKB= 18

### DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: burch keely unit 937h-de\_01.ut

Minimum Curvature Method

Report Date/Time: 5/26/2016 / 14:35

VES Survey International

Fort Worth, Texas

Office 817-741-3610

Surveyor: Gregg Wilson

Burch Keely Unit No 937H / API 30-015-42759

NM OIL CONSERVATION  
ARTESIA DISTRICT

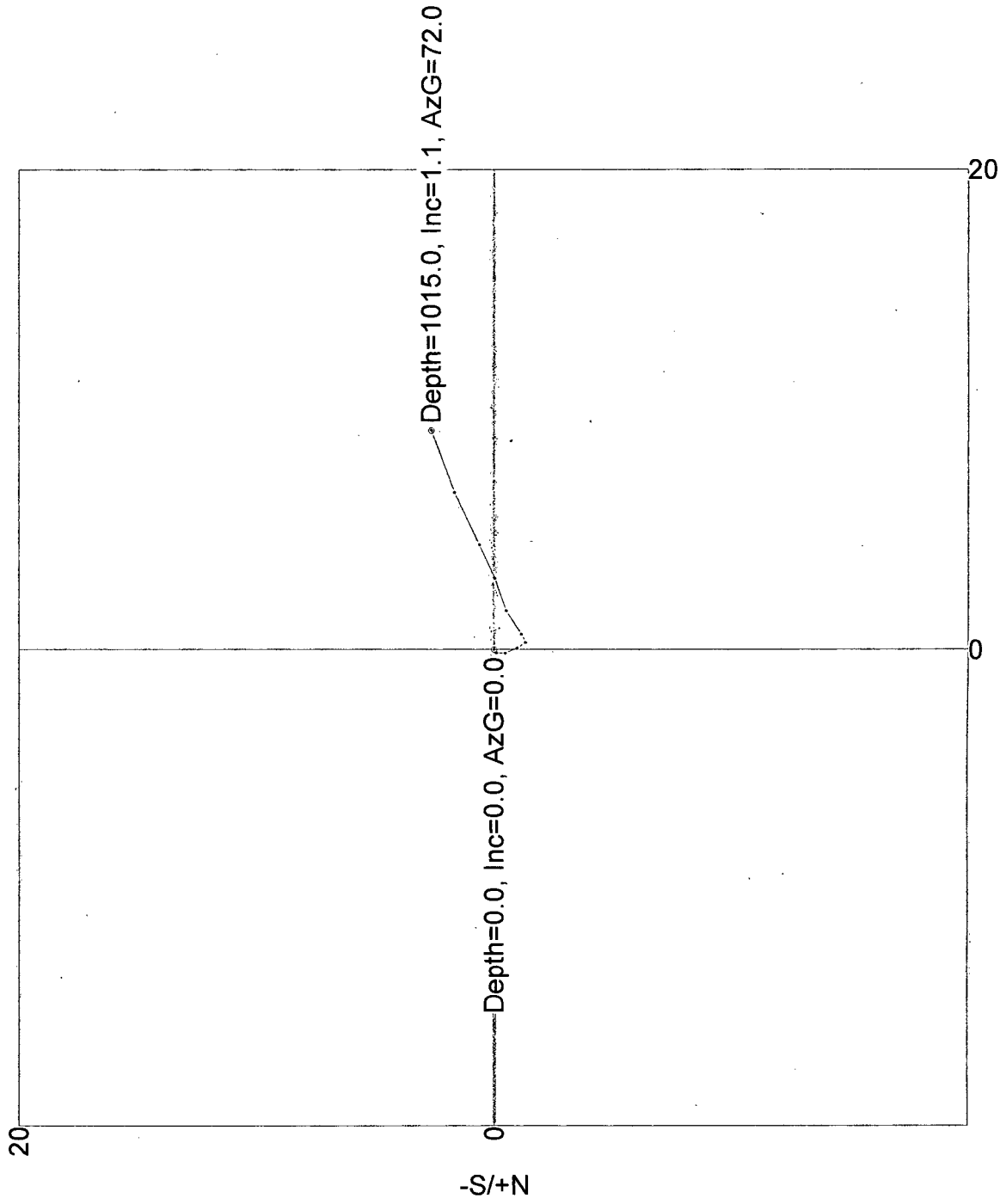
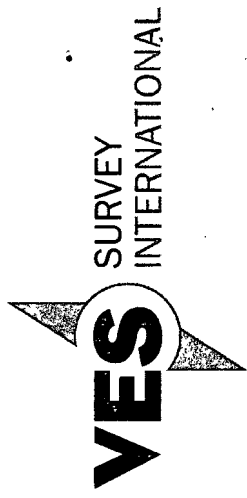
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RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.20	236.86	100.00	-0.09	-0.15	-0.09	0.17	236.86	0.20
200.00	0.35	155.55	200.00	-0.47	-0.16	-0.47	0.50	199.02	0.38
300.00	0.27	157.73	300.00	-0.97	0.05	-0.97	0.97	176.83	0.09
400.00	0.23	134.22	400.00	-1.32	0.29	-1.32	1.35	167.80	0.11
500.00	0.43	31.95	500.00	-1.15	0.63	-1.15	1.31	151.34	0.53
600.00	0.98	68.07	599.99	-0.51	1.62	-0.51	1.69	107.63	0.68
700.00	0.67	74.04	699.98	-0.03	2.97	-0.03	2.97	90.65	0.32
800.00	1.10	59.35	799.97	0.62	4.36	0.62	4.40	81.95	0.48
900.00	1.68	67.69	899.94	1.66	6.54	1.66	6.75	75.74	0.61
1015.00	1.08	72.02	1014.90	2.64	9.13	2.64	9.50	73.89	0.53

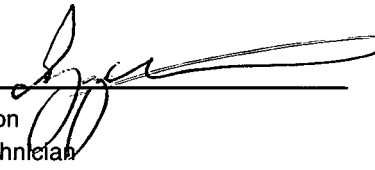


VES Survey International  
Fort Worth, Texas  
Office 817-741-3610  
Surveyor: Gregg Wilson  
Burch Keely Unit No 937H / API 30-015-42759



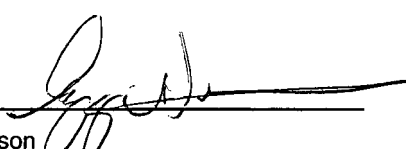


I Gregg Wilson certify that I am employed by VES Survey International. That I did on the day(s) of 05/21/16 through 05/21/16 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 1,015.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Concho for the Burch Keely Unit Well # 937H API # 30-015-42759 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.

  
\_\_\_\_\_  
Gregg Wilson  
Service Technician  
VES Survey International



I Gregg Wilson certify that I am employed by VES Survey International. That I did on the day(s) of 05/21/16 through 05/21/16 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 1,015.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Concho for the Burch Keely Unit Well # 937H API # 30-015-42759 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.

  
\_\_\_\_\_  
Gregg Wilson  
Service Technician  
VES Survey International