

TOM L. INGRAM  
NO. 3-X KIRKPATRICK  
HOLE DEVIATION SURVEY

800' -  $3/4^{\circ}$   
1285 -  $1/2^{\circ}$   
1820' -  $1/4^{\circ}$   
2300' -  $1/8^{\circ}$   
2550' -  $3/4^{\circ}$   
3075' -  $1^{\circ}$   
3554' -  $3/4^{\circ}$   
3819' -  $1-1/4^{\circ}$   
4110 -  $1^{\circ}$   
4201' -  $1/2^{\circ}$   
4370' -  $3/4^{\circ}$

I certify that this is a true and correct statement of the Hole Deviation for the  
No. 3-X Kirkpatrick, Section 11-8S-37E, Roosevelt County, New Mexico

By Tom L. Ingram

Title: Owner

STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) SS.

Sworn and subscribed to before me the undersigned authority, on this 6<sup>th</sup> day  
of May, 1965.

Joan Hayes  
Notary Public in and for Chaves County,  
New Mexico

My Commission Expires:

March 4, 1969

TON L. INGRAM NO. 3-X KIRKPATRICK  
Section 11, T-8-S, R-37-E  
Roosevelt County, New Mexico

- Core #1:** 4514-4590, recovered 77': 4513-4517 - Finely Xln Dolomite w/ppp bleeding oil.  
4517-4520 - Dense Dolomite.  
4520-4544 - Anhydrite and Dolomite  
4544-4576 - Dolomite with fine porosity to vuggy  
4576-4579 - Dense Dolomite  
4579-4585 - Anhydrite and Dolomite  
4585-4590 - Dense Dolomite
- Core #2:** 4590-4640, recovered 47½': 4590-4597 - Fractured Dolomite with scattered porosity  
4597-4598 - Dense Dolomite  
4598-4599 - Fractured Dolomite with scattered porosity  
4599-4612 - Anhydrite and Dolomite  
4612-4636 - Dolomite with scattered porosity slight  
bleeding of water, gas from fractures.  
4636-4637½ - Anhydrite and Dolomite
- DST #1:** 4514-4590. Open 2 hours. Gas to surface 33 minutes (150 MCFFD), had formation damage. Recovered 394' highly gas cut and slightly water cut mud. Hydrostatic In 2587, 60 minute ISIP 1051 (still climbing), IF 141, FF 141, 60 minute FSIP 1175 (still climbing), Hydrostatic Out 2559.
- DST #2:** 4585-4640. Open 30 minutes, had weak blow 5 minutes and died. Recovered 70' mud. Hydrstatic In 2611, 60 minute ISIP 1613, IF 96, FF 114, 30 minute FSIP 1358, still increasing. Hydrostatic out 2581.