

T4S, R64W, 6th P.M.

BISON EXPLORATION

HOULIHAN 4-64 22A 21-8
SE 1/4 NE 1/4, SECTION 22, T4S, R64W, 6th P.M.
ARAPAHOE COUNTY, COLORADO

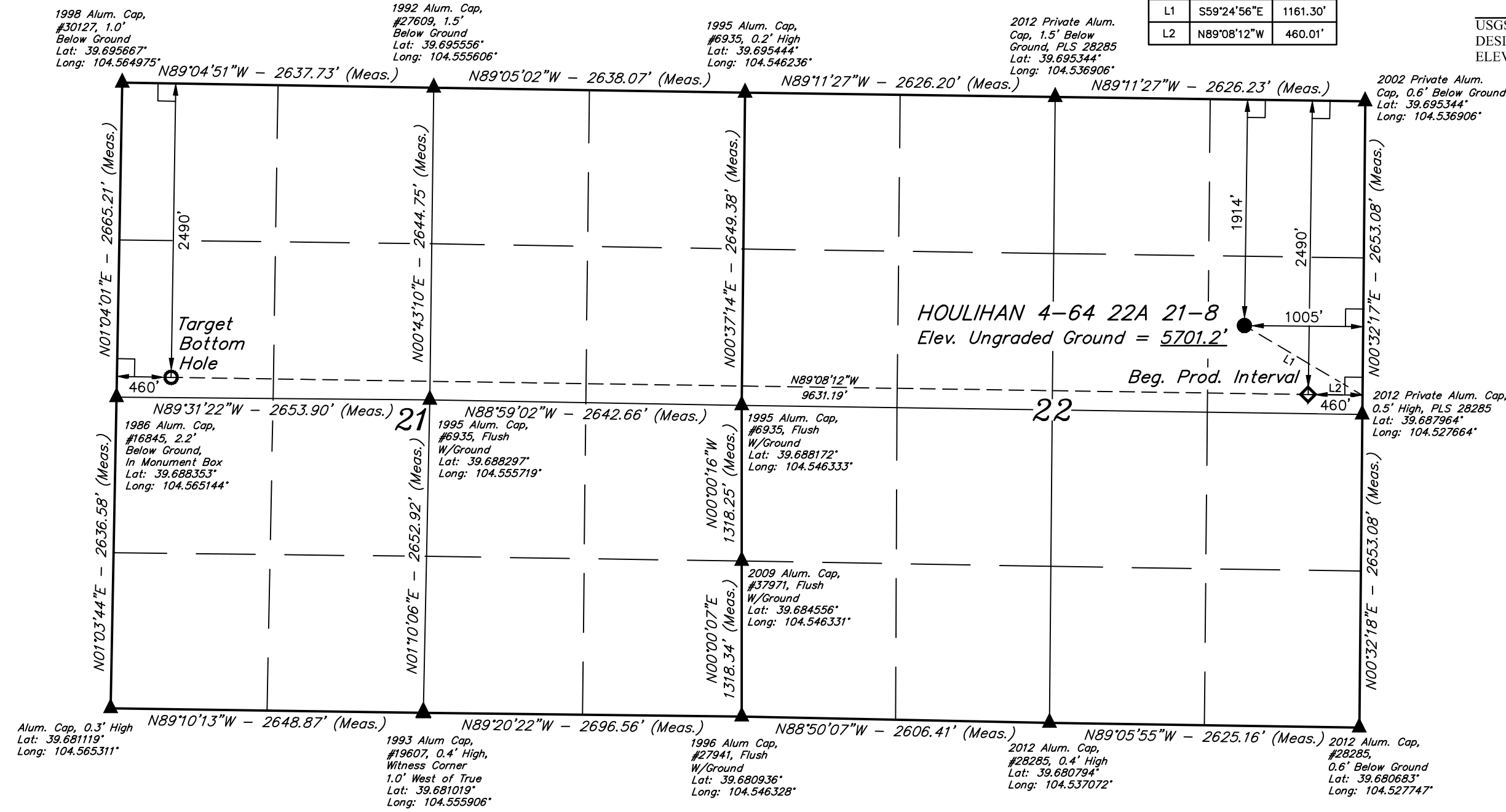
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION

BASIS OF ELEVATION

USGS COOPERATIVE BASE NETWORK CONTROL STATION,
DESIGNATION "K 374". NGS DATA SHEET LISTS THE NAVD 88
ELEVATION AS BEING 6054.61 FEET.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S59°24'56"E	1161.30'
L2	N89°08'12"W	460.01'



HOULIHAN 4-64 22A 21-8
Elev. Ungraded Ground = 5701.2'

Beg. Prod. Interval

PDOP = 1.3

- LEGEND:
- 90° SYMBOL
 - PROPOSED WELLHEAD.
 - PRODUCTION INTERVAL.
 - TARGET BOTTOM HOLE.
 - SECTION CORNERS LOCATED. (NAD 83)

SURFACE LOCATION 1914' FNL 1005' FEL	BEG. PROD. INTERVAL 2490' FNL 460' FEL	TARGET BOTTOM HOLE 2490' FNL 460' FWL
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'24.11" (39.690031)	LATITUDE = 39°41'18.35" (39.688431)	LATITUDE = 39°41'19.73" (39.688814)
LONGITUDE = 104°31'52.35" (104.531208)	LONGITUDE = 104°31'45.45" (104.529292)	LONGITUDE = 104°33'48.60" (104.563500)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'24.16" (39.690044)	LATITUDE = 39°41'18.40" (39.688444)	LATITUDE = 39°41'19.78" (39.688828)
LONGITUDE = 104°31'50.48" (104.530689)	LONGITUDE = 104°31'43.58" (104.528772)	LONGITUDE = 104°33'46.72" (104.562978)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1677676.74 E: 3272634.28	N: 1677098.93 E: 3273180.29	N: 1677138.22 E: 3263552.00
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 677669.75 E: 2272787.75	N: 677091.96 E: 2273333.76	N: 677131.09 E: 2263705.55

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD
NOTES OF ACTUAL SURVEYS MADE IN MY PRESENCE OR UNDER MY SUPERVISION,
AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 28285
STATE OF COLORADO

REV: 1 03-14-17 J.J. (SURFACE HOLE MOVE)



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SURVEYED BY	NIGEL POLL, G.W.	02-13-17	SCALE
DRAWN BY	J.J.	02-16-17	1" = 1000'

WELL LOCATION PLAT